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Edgar A. Mearns,  
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## Birds.

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## The Kingfisher (*Alcedo alcyon*)

to the water as if disabled, where it lies trying to induce the person to make out after it, when it will fly off as well as ever. They <sup>st</sup> usually select an old dry limb of a tree projecting over, or a post standing in the water where <sup>it often</sup> they will sit for the greater part of the day, occasionally plunging after a fish, or flying over the water until it spies a fish <sup>where a moment and then</sup> when it plunges into the water <sup>which it swallows immediately</sup> presently emerging with its prey. Its cry is a harsh rattle, and its flesh is fishy and unpalatable, they are sometimes eaten. They are usually fat.

Length—

Wing Extent—

Bill—Black.

Legs and feet—Brownish black.

Iris—Black

Tail—

## The Blue Bird. (*Sialia wilsoni*)

The blue bird is about inches in length of a beautiful blue above and brownish red on the breast with belly white. The colors of the female are not as ~~bright~~ brilliant as those of the male. It is the harbinger of Spring to the Americans and is very pleasing in its habits, which are very similar to the English Redbreast, showing as much confidence in man by associating with him in Summer, as the Redbreast does by his familiarity in Winter. It builds its nest which is placed in a hollow tree or fence post or similar locality about the first of April and lay 4-6 light blue eggs without spots. They rear several broods in a season. Sometimes when the nest is completed and part or the whole of the eggs are laid, a pair of house wrens come along and take a fancy to the nest when the blue birds are driven out and their nest and eggs thrown out and the wrens build a snug nest for themselves while the blue birds have to hunt up another.



## The Bluebird (*Sialia wilsoni*)

They are migratory birds but sometimes stay as far north as this during the Winter. The Blue Bird is quite easily tamed. Its food consists principally of insects. Its song is cheerful, and is frequently heard in the serene days of Spring.

Length

Alar extent

Bill - Black

Legs and Feet Black

Iris Black

## The Robin (*Merula Migratoria*)

The American Robin or Migrating Thrush is very unlike his namesake in England but shares with it the popular admiration. It is a migratory bird although occasionally it remains here all Winter subsisting on the blue berries of the cedar trees and also the berries of the sumack &c.

The color above is of a dull ash and ~~the~~ the breast bright red beautifully interspersed with white the head and tail are nearly black. Its song in the Spring is very agreeable. It is quite tame and is often caged, living to quite an age. I know one that has been confined within a space of two feet for over ten years. The two outer feathers of the tail, white at the tip, on the inside. Throat white. A ring of white around the eyes. Beneath reddish varying according to the season.

Bill. yellow. Abdomen pure white.

Throat nearly white, thickly marked with black streaks. Back dull greyish. The young are much lighter beneath marked with black.

These birds build usually near houses



American Robin (*Merula migratoria*)

in orchards and groves, and frequently in ever green trees. They begin to build about the first of <sup>May</sup> ~~April~~. The nest is composed of mud and grass, lined with fine grass. The eggs are from 4-6 bluish green, unspotted. They feed on insects, berries, fruits, and worms. Its popular name was first given it by the early settlers of this country, from its supposed resemblance to the Robin red breast (*S. rubicola*) of Europe.

It ranges from the equator to the 27th. degree of north latitude.

Length 9.0-10.0 inches

These birds are shot in great numbers although they are small, their flesh is very good food. They frequently move in large flocks but do not fly close together.

Ruby-throated Humming-bird (*Trochilus columbris*)

Color above light green with metallic reflections. In the male the throat and breast is of a resplendent ruby or flame color, varying to orange according to the light in which it is placed. The female is without the brilliant throat mark, is of a greyish color beneath and the tail feathers are broadly banded with black, tipped with white. The young is dull whitish beneath with the tail tipped with white. Tail <sup>(notched)</sup> dusky black with the three outer feathers rusty white at the tips. The throat of the female is white. The bill is straight and very long being somewhat dilated at the tip.

This is our smallest species of bird being about three and a half inches in length. The feet are very short and small.

In very warm seasons the Humming-bird is very abundant with us, arriving here about the first of May when it imme-



The Ruby-throated Humming-bird (*Prochilus colubris*)

diately commences to construct its nest which is generally placed on the top of a limb of a tree or fork, often on a cedar. It is made of the fiber of the silk weed bound together with spider's webs and coated on the outside with mosses or lichens in order to make it more closely to resemble the tree on which it is placed. In this I think they succeed very well for at a short distance it can scarcely be detected from a moss covered knot. It lays two eggs, pure white, unspotted, and rounded equally at both ends. It feeds on the sweet juices of plants and also ~~on~~ insects, although some naturalists hold that they do not.

It is fearless and active often entering the open windows or doors of dwellings. It leaves us about the first of October, sometimes earlier. Like the whole family it is peculiar to America.

Length 3.2 - 3.5 inches  
Length of bill 1.2

White-breasted Nuthatch (*Sitta carolinensis*)

The top of the head and the back of the neck glossy black, spreading over the shoulders. Back bluish. The gills black edged with bluish. Inside of wings next the shoulder ~~of a bluish color~~ black, bordered bluish with a white. The sides of the head and beneath pure white. The crown of the female is dark leaden and the neck glossy black and the female is without the black on the head. The bill is long, longer than the head. Head plumbeous. The bill is straight with incumbent feathers at the base of the upper mandible, extending over the nostrils. The tail short, nearly even but slightly rounded. It is about five inches long. feet short.

This bird derives its name from the hatches or holes which he makes on hard nuts while searching after larvae. It is a resident here as I have seen it throughout



White-breasted Nuthatch (*Sitta carolinensis*)

the Winter. It lays 4-6 whitish eggs spotted with brown at the larger end. Its food consists mainly of spiders, ants, &c. It ~~now~~ has a short and not very agreeable cry and goes up and down around a tree much like a wood pecker. It ranges from Mexico to Maine.

Length 5.0 - 5.5

Iris Black.

Red-bellied Nuthatch (*Sitta canadensis*)

Color - The <sup>top of the</sup> head, neck, and a line passing through the eyes to the shoulders ~~are~~ are black, chin white and the belly light rust color or reddish. The lateral tail feathers are tipped with light brown and barred with white near the end. The female has the crown dark brownish or nearly black beneath light reddish. General color bluish ~~lead~~.

It is smaller than the other variety (*Sitta carolinensis*) Bill short. Length four inches.

This is a hardy northerner appearing with us only as it passes in the Spring and Autumn on its migrations. It feeds on the oily seeds of the evergreens, and also on insects. In appearance and general habits it bears a close resemblance to the preseedling.

Very little is known of this bird. I have never ~~seen~~ the eggs. Its cry is much like the pre-  
Length 4.0 - 4.5 (seedling)



Chimney Swallow (*Chaetura pelagica*)

General color deep sooty brown. Tail about even, shafts of tail feathers are elongated into long, sharp elastic points. Wings extending an inch and two thirds beyond tail. Bill extremely small. Mouth large. A line above eye and chin white. The nostrils are covered with a membrane, leaving only a small tubular aperture. Feet muscular, claws very sharp.

Color above brownish black; somewhat lighter on the breast. Eyes black surrounded by a black skin. Throat greyish white.

Length 4.0 - 5.0.

The Chimney Swallow derives its name from ~~its~~ selecting the chimney of a house in which to build its nest. It appears here about last of April from the South. In unsettled regions this bird builds its nest in caves and hollow trees. Mr. Audubon discovered a ~~nest~~ tree (*Platanus occidentalis*) in Kentucky where over nine thousands of them were roosting; but here they build in chimneys

Chimney Swallow (*Chaetura pelagica*)

only. The nest is composed of dead twigs glued together with some sort of glutinous substance which the male. The sticks are about as large as common matches, and are very neatly lapped, and form a sort of hollowed shelf without a back, it being fastened to the bricks at the back, but they are not fastened so firmly but that they frequently fall down while full of young birds. They break the sticks with their feet, for which they are well adapted. The eggs are 3-5 pure white, oblong. They rear usually two broods in a season. Its food consists of insects which it captures on the wing. It flies about all the time during the day, and they collect at dusk and go to roost in the chimneys. It is curious to watch the evolutions of these birds. They never seem to tire of flight. They fly rapidly, uttering ~~the~~ sharp twittering note. They are found most numerous seeking winged insects near ponds.



Bank Swallow (*Hirundo riparia*)

Greyish brown above, and forming a band across. Beneath light colored. Tarsus naked, with the exception of a few downy tufts behind. Tail somewhat forked. Upper surface of wings much darker, also the tail than the rest of the body. There is a dark band across the upper part of the breast. Outer tail feathers edged with black. A light streak over the eyes. Beak small. Lower shafts of Primary feathers white. Young with feathers of wing coverts bordered with rufous. These swallows appear here before the rest and commence soon to build their nests which are holes dug in sand banks to the distance of several feet at the extremity of which they build their nests, which are made of grass and feathers. The eggs are 4-5 white unspotted, They often build hundreds of nests in one bank, each hole has its owners head at the mouth of it and a colony of them looks very curious. They feed on small insects, which they take on the wing.

Bank Swallow (*Hirundo riparia*)

Their Geographical range is very great. In this country they are found from Louisiana to the 68th degree of north latitude. This species is common to Europe and nearly all quarters of the World. Length 5.0 Inches. Alar Spread 10.5 Inches.



White-bellied Swallow (*Hirundo bicolor*.)

Description - Dark greenish blue above; beneath white. Tail forked. Tarsus naked. The tail reaches a little beyond the wing. The first quill is the longest. The lesser ones being deeply notched at the end. Bill and claws robust. The color above is lustrous steel blue; beneath white. Feet flesh color. Bill black. Female without the splendid luster of the male, but in other respects they are very much alike.

Length 5.0 - 5.5.

This swallow is often shot in Long Island and they are sold in the markets as a small variety of snipe. They are fat and fine flavored and are much esteemed as food. This species feeds on both insects and berries. They are especially fond of wax berries, on which it becomes exceedingly fat. It builds its nest in hollow trees. I have also frequently seen them occupying boxes and bird-houses built for them. Their eggs are - 4 - 6 pure white. It ranges from the gulf of Mexico to the 60 degree of North latitude. It is found throughout

White-bellied Swallow (*Hirundo bicolor*)

the United States. It arrives here about the middle of April, and leaves us on its southern migration about the first of September. It is peculiar to America.



Purple Martin (*Hirundo purpurea*)

Bill rather robust. Wings rather longer than tail. Tail forked. Plumage compact and glossy. General color dark bluish purple and glossy. Quills, tail, and lesser greater coverts black. Lores velvet blk. Legs of a dark soiled purple. Female and young, bluish brown above being somewhat paler than the male, with the under parts lighter and streaked with darker spots and streaks.

Length 7.0 - 8.0

This bird is the largest of the swallows in this country. It arrives here about middle of April, and leaves us on its southern migration about the middle of August. It is bold and active. It attacks and drives away from its nest any other bird which may chance to be near it. These birds are great pests with all, and much expence has been laid out in preparing for them suitable houses. and boxes are often fixed against houses for their use; they are fixed much like pigeon lofts and I have seen them

Purple Martin (*Hirundo purpurea*)

that I thought must contain over five hundred birds. It commences building soon after its arrival, and the female lays from 4-6 white, unspotted eggs. They usually rear two broods in a season. Its food consists of winged insects. Its geographical range is very great. It is said to extend from 19 degrees, north latitude to within the Arctic circle. Peculiar to America.



Barn Swallow (*Hirundo rufa*)

Tail deeply forked, longer than wings, with lateral feathers very narrow. General color above glossy blue. Legs dark purple. Irides dark brown. Bill black. Beneath chestnut. All the feathers of the tail but the two central ones have a large white spot on the middle of the inside web. Female and young paler beneath and the exterior tail feathers shorter. Length 6.5-7.0

This is our most common swallow. It arrives here about the first of ~~May~~ April and usually leaves before the first of September. Its migrations extend as far north as 68° north latitude.

This bird has been by some naturalists with *Hirundo rustica* of Europe.

Its nest is formed of mud or clay mixed with grass, and is attached to the rafters of outhouses and barns.

It is thickly lined with feather, they usually use geese feathers where they are to be found. The eggs are from 4-6 in number, white, thinly spotted with reddish brown.

Barn Swallow (*Hirundo rufa*)

They usually build in colonies, a large number taking possession of one building and placing their nests close together against each other, on both sides of the rafters. I have seen not less than a hundred of these nests in one small barn, all of which contain<sup>ed</sup> young birds. If the nests are disturbed all of the birds will collect and fly about the head of the intruder chattering loudly the while. Their food consists of winged insects of which they destroy great numbers, being like the whole family very useful birds.

It is peculiar to America.

Cliff Swallow (*Hirundo fulva*)

Colors. Bluish black above and brownish beneath. Throat rust color. Front with a light colored band around. Rump rust color. Tail even, and slightly emarginate, reaching nearly to the end of the closed wings. A narrow black line extending over the bill to each eye. Sides dark brown. Bill and feet dusky. Crown black. Breast, throat, and a narrow band on the hind part of the neck chestnut. Outer tail feathers edged with white on the inside. Lesser wing coverts brown.

Length 5.0-5.5. Alar extent 12.00-13.00

The Cliff Swallow arrives in this State about the first of June and toward the latter end of July. It breeds here its nest is made of mud, with a narrow tubular neck by which it enters. The eggs are 4-5 white spotted with brown. Until this country was settled these birds fastened their nests to the sides of overhanging rocks, but now they usually build them under the eaves of dwelling houses and out buildings. I have seen their nests reaching round large buildings. Peculiar to America.

Whip-poor-will (*Caprimulgus vociferus*)

Tail long, much rounded reaching one half beyond the wings. Bristles very long. Quills of tail feathers marked with dark spots. Three outer feathers white at tips. <sup>feathers light brown as tip</sup> Mouth beset with long bristles some of which extend more than half an inch beyond the point of the bill.

Plumage sprinkled with dirty, white, black and rust colored spots. Scapulars marked with sparsely with black. Wings beautifully marked with light and very dark. Head large and somewhat flattened, gape very wide. Chin black with small <sup>corium spots</sup>.

Length 9.0 Alar extent 19.0

The Whip-poor-will appears here about the last of April. It breeds here. Its nest, or rather where it lays its eggs, as it builds no nest, is on the ground, or a rock or stump. Its eggs are 2-3 bluish white, with bluish and dark olive blotches. It is strictly nocturnal in its habits. It feeds exclusively on winged insects. A great deal of superstition.



Whippoorwill (*Caprimulgus vociferus*)

exists concerning this bird. It is not generally known, as it frequents dark, solitary forests in the day time, but every one is familiar with its plaintive notes in the evening which very much resemble the words whip-poor-will, with the accent on the middle syllable. The young look like little balls of down, and can scarcely be detected from a mouldiness on the ground; and if disturbed they are removed by the parent birds. It is also stated they will remove their eggs if meddled with. They perform their migrations during the night. They are flat and fine flavoured and are very good eating. They are found from Louisiana to the 48th degree of north latitude.

Night Hawk (*Chordeiles umiericanus*)

Tail deeply emarginate, Head large and depressed. Wings reaching beyond tail. Eyes very large. Color above deep blackish brown, marked with innumerable ~~the~~ cream-colored spots and dashes of several different shades. Beneath rufous, with waving bars of dark brown. The male has a band of white across the tail and a horse shoe shaped spot on the throat. The female is without these.

Length 9.0-10.0. Alar Extent 23.0-24.0

This bird and the previous one were for a long time considered as the same until examined by Wilson. The difference however is very great. The night hawk always sits lengthwise of the limb. It also has the tail forked while the whippoorwill's is rounded. The plumage also differs somewhat as also do the eggs. Notwithstanding the popular name of this bird it can scarcely be considered as nocturnal as it has been seen ~~within~~ in the regions of the far north where the sun does not set during the day.

Night Hawk (*Chordeiles americana*)

It also may be seen in the afternoon flying high in the air, but when night approaches it skims over the ground in search of winged insects. They are often seen flying in large flocks high in air before a storm. Their flight is very much like a swallow. They appear here about the last of April a little before the Whippoorwill. It has peculiar loud booming sound that may be heard long before the bird comes in sight. This bird like the preceding never builds any nest but deposits its eggs on the ground. They are usually two, rather oblong, equally thick at both ends, of a dirty bluish white, and marked with innumerable touches of dark olive brown. They roost in large trees seldom both seen in one tree and never sitting across the branch.

Bohemian Waxwing (*Bombuscia <sup>garrulus</sup> ~~garrulus~~ <sup>carolinensis</sup>*)

Brownish grey. Frontlet, throat, a line over the eyes, and a line at the base of the upper mandible extending beyond the eyes black. The wings and tail blackish. A streak below the lower mandible white. Tail tipped with yellow. Wings marked with two series of white spots, the coverts being tipped with white forming a band, quills with a bright yellow spot at the end of the outer web. Irides dark red. The crown is ornamented with a crest an inch broad and an inch and one half long. Secondaries with the shafts of four to seven of them ornamented with bright red waxen appendages, but these are occasionally wanting. The male sometimes the ends of the tail feathers enlarged, and bright red.

Length 8.0 - 9.5

This bird is still rare but is increasing very rapidly. Its geographical range is very great. It is found in the northern portions of Europe



Bohemian Waxwing (*Bombus cilla garrula*)

and Asia as well as in the northern parts of this country. I have not seen its nest or eggs. It is not found farther south than Pennsylvania. An acquaintance of mine once found two birds one of these and a cedar bird in the woods, lying close together dead. He could discover no cause for their death as neither of them ~~were~~ was wounded in any way. He has them both beautifully mounted in his collection.

Cedar Bird (*Bombus cilla* <sup>*carolinensis*</sup> ~~*americana*~~)

General color brownish grey, a deep black line from the nostrils to the back of the head, over the eye, bordered above by a narrow line of white. Wings blackish. Irbis black blended into brown. Belly yellow. Vent white. Frontlet black. From five to seven and sometimes all of the secondaries ornamented with a waxen appendage of a vermilion color. I have seen two birds with these on the tail feathers, and have frequently seen them without any. Bill and legs black. Tail tipped with a broad band of yellow. The female has the band on the tail more narrow and the plumage duller. Length 7.0-8.0

This bird is well known for its depredations which it makes on cherries and other fruit. The associate in large flocks and feed on whortleberries, cedar berries, cherries and grapes. They also feed on caterpillars, beetles and winged insects. Their nest is very neat, being made of hairs, fine grasses &c. It is lined

Cedar Bird (*Bombycilla carolinensis*)

with fine grass and is very round and rather deep. The egg nest is placed on a tree and the eggs are usually four in number, purple-ish white spotted with black.

They usually fly in large flocks and very close together. They are sometimes half of them killed at one shot they are very fat and fine flavoured. They are found from the equator to the 50th degree of north latitude. They frequently remain here all winter, feeding on cedar and various other kinds of berries. They have various popular names such as Canada Robin, Cedar bird, Cherry bird, and Brown bird.

American Creeper (*Certhia americana*)

Color dark ~~brass~~ grey, varied with brown and dusky; Beneath white; rump and tail dark brown. Feathers above with a dull white central streak. A white streak over the eye, and a dark triangular spot between the eye and the bill. Brown on the sides. Wings brown. Tail brown with dusky spots, undulations. The tail is rounded, longer than the body; quills with their shafts projecting beyond the webs and ending in sharp, elastic points. Plumage soft and loose. Length 5'0 - 5'5

The Brown Creeper is a very solitary bird and on this account it is supposed to be a very rare bird, but I think it is more common than is generally supposed, as the frequent the recesses of the forest and their colors are so plain. It breeds here, and remains here during the winter. It digs a hole in an old tree where it lays its eggs which are from 7 - 9 of a dull ash color with spots and streaks of brown. It feeds on insects and the seeds of pine.



Brown Creeper (*Certhia americana*)

It is different from the common creeper of Europe. It ranges from Louisiana to the 50th degree of north latitude. This bird on account of its dull colors and solitary habits may be readily overlooked in walking in the forest. I found a nest not long since. It contained eight eggs. The tree was standing in the middle of a large brook and the hole was very neatly dug, and must have taken a great deal of labor to dig it. It was lined with rabbit's hair there was a large bunch of it.

Varied-Creeper Warbler (*Monotilla varia*)

General color white varied with black. A white line along the top of the head. Throat in male black; in female and young of the year greyish. Rump black, a line above, and also one below the eye white. Quills rusty brown edged externally with whitish. Wings with two bars of white. Tail with the inner webs marked with white. Beneath varied with black and white. Female and young greyish tinged with rufous on the throat sides and under tail coverts marked with black. Eye stripe obsolete. Sides of the neck dull rufous. Bill slightly dilated at the tip, curved, and compressed at the sides; lower mandible straight. Tail ~~slightly emarginate~~ or even. Wings reaching to within half an inch of the end of the tail; second quill rather longest. This is a very common species. It appears from the south about the middle of April. It leaves us for the south about the last of September. It a very useful bird, destroying

Varied Creeping Warbler (*Mniotilta varia*)

various insects which hide themselves in the crevices of the bark of trees. Its eggs are whitish, with brownish red spots at the larger end. It builds its nest on the ground, usually at the foot of a rock. It is made of the bark of the cedar and of grape vines and other such materials. The eggs are about five. They creep up the trunk of trees in search of insects, looking at a distance much like small woodpeckers.

Length 5.0-5.5

They are found from Mexico to the 50th degree of north latitude. Peculiar to America.

Marsh Wren (*Troglodytes palustris*)

General color dark brown. Brown dusky brown. A white stripe over the eyes. Neck and back streaked with lighter. Color above reddish brown. Beneath glossy white. The lores, belly, breast, throat, and a line from the eyes whitish. Sides of the breast faintly barred with brown. Thighs and vent brownish.

Tail darker towards the end with six or seven faint black bars. Wings dark; the feathers edged with lighter. Bill curved and entire. Tail erect, short and rounded. Wings with fourth quill longest. Tongue sharp, pointed, and entire. Legs and feet large. Tarsus long and slender.

Length 4.5-5.0

This bird is chiefly found, as its name implies in marshes where it constructs a curious pursile nest of reeds, and grass, lined inside with the soft cat-tails pulled in pieces. The nest is round or oblong, with a small round hole near the top for an entrance. The nest is fastened to several reeds, and there are usually



Marsh Wren (*Troglodytes palustris*)

a number of nests near together. It lays from 6-8 small mahogany colored eggs. I have seen several eggs that were much larger than any others I have ever seen, and of a lighter color. When the bird leaves her nest she carefully covers up the entrance. This bird is highly musical, and early in spring sings during the whole or the greater part of the night. It is found from Texas to Massachusetts. It breeds here.

Brown Thrush (*Orpheus rufus*)

General color red dish brown. Beneath whitish, spotted with black. Wings with two whitish bands. Color above bright reddish. Beneath yellowish white; breast and sides with arrow headed dark brown spots. Wings above with two series of white spots, forming bars. Lower mandible whitish at the base. Iris yellow. Legs dusky black. Female with the spots on the breast smaller, and the bars on the wings narrower. Bill long and rounded; notch obsolete. Wings round, being three and ~~three~~ <sup>four</sup> ~~or~~ <sup>inches</sup> shorter than the tail. Feet large.

Length 11.5-21.0. Alar extent 13.0-15.5. This bird has numerous popular names of which Brown Thrasher, Ground Thrasher, Ground Mockingbird, and French Mockingbird are among the most common. They arrive here from the south about the end of April. I have heard that they sometimes remain here during the winter but I have never seen one.

Brown Thrush (*Orpheus rufa*)

during the winter. Its food consists of various kinds of berries, insects, and worms. It breeds here, and builds its nest on or near the ground, laying 4-6 greenish white eggs, with innumerable dots of brown. It is found from 30° to 54° north.

Cat Bird (*Orpheus carolinensis*)

General color, deep slate. Beneath paler. Vent rufous. Tail black. Bill black; feet blackish brown. Young with the feathers of the back slightly tinged with ~~black~~ reddish.

Bill compressed on the sides with an acute ridge above; the tip slightly bent. Notch near the tip, very minute. Two to four rigid bristles projecting forwards from the corner of the mouth. Wings short, from two to two and a half inches shorter than the tail. Nostrils nearly closed above by a membrane, and partly concealed by feathers. Fourth and fifth primaries nearly equal and longest. Length 9.0 Alar extent 12.6

The cat bird spends its winters in the southern extremity of the United States, and arrives in this vicinity about the middle of April. It builds its nest of sticks, lined with fine roots. It is often placed in the edge of a swamp, usually in a thick bush or vine. It lays 4-5 greenish



# Cat Bird (*Oryzopsis carolinensis*)

unspotted eggs. Its food consists of berries, worms, wasps, insects &c. It is one of our most useful birds. Its notes are exceedingly varied and beautiful. In early spring it often commences its song before day-break, but it has a harsh note which brings it under general contempt, and gave rise to its popular name. It is found from Mexico to the 34th degree of north latitude.

# Wood Thrush (*Merula mustelina*)

Color above reddish brown: rump and tail inclining to olive: head fulvous. Central part of the throat and vent pure white. Ends of the quills and upper side of the ~~out~~ tail, greenish brown. Deep brown heart shaped spots on the belly, breast, and sides of the neck. Eyes margined with whitish. Bill short carinate above; mandibles subequal. Nostrils large subovate. Tail short slightly emarginate. Extended leg reaching beyond the tail. The closed wings an inch shorter than the tail. Third and fourth quills longest, nearly equal; outer webs of the third, fourth and fifth obliquely sinuated; the second being equal to the fifth.

Length 7.5-8.0

This little thrush arrives in this vicinity early in May. Its habits it is shy and retired, but it is well known for its distinct, rich and varied song, which is most frequently heard early in the morning. It has various popular

(Wood Thrush (*Merula mustelina*))

names of which. Ground Robin, Little Brown Thrush and Wood Robin are the most common. It breeds in this vicinity: its nest is placed in a low tree; it is about as large as a robin's but is lined inside with fine roots instead of grass. The eggs are 4-5 and do not differ from the robin's except slightly in size. It feeds on various kinds of berries, caterpillars etc. It ranges from Mexico to the 50th degree of north latitude.

Hermit Thrush (*Merula solitaria*)

Color above dark ferruginous brown inclining to reddish on the tail. Chin greyish white. Beneath white with dark brown arrow-headed spots on the breast. Sides of the head and neck dull yellowish with arrow-headed spots. Lower mandible yellowish, darker towards the tip; upper blackish. Bill moderate, with notch at the tip, small but distinct. Tail short, emarginate; under tail coverts of the tail pale buff. Third, fourth and fifth primaries longest; second and fifth subequal. Length 6.5-7.5 Alar extent 10.5-11.0

The ~~Hermit~~ Thrush as its name indicates is a shy solitary bird residing for the most part in the deep woods. In its general color it is said to resemble the European Nightingale, and its beautiful song is scarcely inferior to that bird. Its soft liquid notes are more pleasing than any other American bird. It very much resembles



# Hermit Thrush (*Mermula solitaria*)

the Wood Thrush but may be readily distinguished by its somewhat smaller size and the shape of its spots below. It arrives in its vicinity about the middle of May. Its eggs are pale greenish blue spotted with olive. It ranges from Mexico to the 50th degree of north latitude.

# Yellow-Throat (*Trichas marilandica*)

Color above rich olive green. A broad band passing through the eyes across the front and ending in a point on the sides of the neck, bordered above by bluish grey line. Vent, breast and throat yellow; more distinct on the bill breast, chin and throat; darker on the flanks and belly. Bill dark brown. Feet flesh colored. Wings and tail dusky brown, with their feather edged with yellowish olive. Female light olive above; reddish olive beneath: eye stripe wanting. Autumnal male: Summit of the head reddish olive; eye stripe not bordered, and only passing through the eye. First quill longest

Length 5.0-5.3. Alar Extent 6.0-6.5

This common species arrives here about the middle of May and takes its departure for the south early in September. Its nest, <sup>which</sup> is on the ground resembles the Oven bird's. The eggs are 4-6 white speckled with reddish brown.

# Yellow Throat (*Trichas marilandica*)

Its <sup>food</sup> consists of caterpillars and spiders. It ranges from Mexico to the 50 parallel of north latitude

# Wood Pewee (*Muscicapa virens*)

Color above greenish dusky olive; upper part of the head brownish black. The eyes with a pale whitish ring. Two obscure greyish bands on the wings; secondaries bordered greyish. Beneath pale greenish yellow; breast greenish grey. Upper mandible and feet black. Throat greyish with a greenish tinge. Lower mandible yellow. Second primary longest. Bill with sides somewhat convex; the tip notched and slightly bent; edges sharp. Head sub-crested. Tail deeply emarginate. Length 6.0-6.5. Alar extent 10.0-11.0

The Wood Pewee spends the winter in Mexico, and appears in this vicinity about the middle of May. It breeds here, laying 3-4 cream-colored eggs with irregular brown spots at the larger end. Their food consists of insects which it takes on the wing. It may most frequently be seen perched on a dry limb occasionally flying off in circles after insects. They are found from Mexico to the 50th degree of north latitude. The male & female do not differ in plumage.



Phoebe (*Muscicapa fusca*)

Color above dark olive; the head brownish black. Wings and tail dusky approaching to black; the former edged on every feather with yellowish white. Legs and bill black. Beneath greenish yellow; the breast greyish. Male and female nearly alike. Tail emarginate; the exterior feathers whitish on the outer web.

Length 7.1 Alar extent 9.0 - 9.5

The Phoebe is the certain harbinger of Spring. They arrive here about the last of March or the beginning of April. They are familiar under every where favorite birds. It breeds here. Its nest is made of of Moss and mud lined with fine grass and is attached to the rafters or under the eaves of a building or under a bridge, or in the absence of such a place they will place it under a projection of a cliff. Its eggs are from 4-6 white with a few reddish spots at the larger end, although they are sometimes wanting. They feed during the winter on vari-

Phoebe (*Muscicapa fusca*)

ous kind of seeds and berries in the summer on insects. They leave us about the last of October. It spends the winter from Mexico to South Carolina and extends its migrations north as far as the 57th parallel.

# Blue Jay (*Garrulus cristatus*)

Color above light purplish blue.  
A narrow black line running along  
the frontlet, and rises higher than  
the eye on either side. Mouth, tongue,  
claws, legs and bill black.

# Blue Jay (*Garrulus cristatus*)



## Synopsis of Birds of North America (Audubon)

Continued from  
Page 476.

- Family XVI Agelaiinae Marsh Blackbirds,  
Genus 1 Dolichonyx-----Rice Bird,  
 " 2 Molothrus-----Cow Bird,  
 " 3 Agelaius-----Marsh Blackbird,  
 " 4 Icterus-----Oriole,  
 " 5 Quiscalus-----Crow Blackbird,  
Family XVII Sturninae-----Starlings,  
Genus 1 Sturnella-----Meadow Starling,  
Family XVIII Corvinae-----Crows,  
Genus 1 Corvus-----Crow,  
 " 2 Pica-----Magpie,  
 " 3 Garrulus-----Jay,  
 " 4  Nucifraga-----Nutcrackers,  
Family XIX Laniidae-----Shrikes,  
Genus 1 Lanius-----Shrike or Butcher Bird,  
Family XX Vireoninae-----Greenlets,  
Genus 1 Vireo-----Greenlet,  
Family XXI Pipridae-----Manakins,  
Genus 1 Icteria-----Chat,  
Family XXII Ampelinae-----Chatterers,  
Genus 1 Bombycilla-----Waxwing,  
Family XXIII Sittinae-----Nuthatches,  
Genus 1 Sitta-----Nuthatch,

## Synopsis of Birds of North America (Audubon)

- Family XXIV Trochilinae Humming Birds,  
Genus 1 Trochilus-----Humming Bird,  
 " 2 Selasphorus-----Ruffed Humming Bird,  
Family XXV Alcedinae-----Kingfishers,  
Genus 1 Alcedo-----Kingfisher,  
Family XXVI Picinae-----Woodpeckers,  
Genus 1 Picus-----Woodpecker,  
Family XXVII Cuculinae-----Cuckoos,  
Genus 1 Coccyzus-----Cuckoo,  
Family XXVIII Psittacinae-----Parrots,  
Genus 1 Centurus-----Parakeet,  
Family XXIX Columbinae-----Pigeons,  
Genus 1 Columba-----Dove,  
 " 2 Coturniculus-----Ground Dove,  
 " 3 Ectopistes-----Long-tailed Dove,  
Family XXX Pavoninae-----Pavonine Birds,  
Genus 1 Meleagris-----Turkey,  
Family XXXI Perdicinae-----Partridges,  
Genus 1 Oryx-----American Partridge,  
Family XXXII Tetraoninae-----Grouse,  
Genus 1 Tetrao-----Grouse,  
 " 2 Lagopus-----Ptarmigan,  
Family XXXIII Rallinae-----Rails,  
Genus 1 Gallinula-----Gallinule,  
 " 2 Fulica-----Coot,  
 " 3 Ortygometra-----Crake Gallinule,

## Synopsis of Birds of North America (And.)

|                |                |                 |
|----------------|----------------|-----------------|
| Family XXXIV   | Gruidae        | Cranes,         |
| Genus 1        | Grus           | Crane,          |
| Family XXXV    | Charadriidae   | Plovers,        |
| Genus 1        | Charadrius     | Plover,         |
| " 2            | Aphriza        | Surf Bird,      |
| " 3            | Streptopelia   | Turnstone,      |
| " 4            | Hematopus      | Oyster-Catcher, |
| Family XXXVI   | Scopaciidae    | Snipes,         |
| Genus 1        | Tringa         | Sandpiper,      |
| " 2            | Phalaropus     | Phalarope,      |
| " 3            | Lobipes        | Lobefoot,       |
| " 4            | Totanus        | Fatler,         |
| " 5            | Limosa         | Godwit,         |
| " 6            | Scolopax       | Snipe,          |
| " 7            | Micropera      | Bogusker,       |
| " 8            | Recurvirostra  | Avocet          |
| " 9            | Himantopus     | Stilt,          |
| " 10           | Maremma        | Curler,         |
| Family XXXVII  | Tantalinae     | Ibises,         |
| Genus 1        | Ibis           | Ibis,           |
| " 2            | Tantalus       | Ibisantalus,    |
| " 3            | Platalea       | Spoonbills,     |
| Family XXXVIII | Ardeidae       | Heron,          |
| Genus 1        | Ardea          | Heron,          |
| Family XXXIX   | Anatinae       | Ducks,          |
| Genus 1        | Phoenicopterus | Flamingo,       |

## Synopsis of Birds of North America by J. J. Audubon.

|              |                |                           |
|--------------|----------------|---------------------------|
| Genus 2      | Anser          | Goose,                    |
| " 3          | Cygnus         | Swan,                     |
| " 4          | Anas           | Duck,                     |
| " 5          | Fuligula       | Sea Duck,                 |
| Family XL    | Mergidae       | Mergansers,               |
| Genus 1      | Mergus         | Merganser,                |
| Family XLI   | Pelecanidae    | Pelicans,                 |
| Genus 1      | Phalacrocorax  | Cormorant,                |
| " 2          | Plutus         | Auklinga,                 |
| " 3          | Fachypetes     | Frigate Bird,             |
| " 4          | Pelecanus      | Pelican,                  |
| " 5          | Sula           | Gannet,                   |
| " 6          | Phaeton        | Tropic Bird,              |
| Family XLII  | Laridae        | Gulls,                    |
| Genus 1      | Rhynchops      | Skimmer,                  |
| " 2          | Sterna         | Fern,                     |
| " 3          | Larus          | Gull,                     |
| Family XLIII | Procellariidae | Fulmars,                  |
| Genus 1      | Lestris        | Jager,                    |
| " 2          | Diomedea       | Albatross,                |
| " 3          | Procellaria    | Fulmar,                   |
| " 4          | Puffinus       | Shearwater,               |
| " 5          | Thalassidroma  | Thalassidroma, or Petrel, |
| Family XLIV  | Alcidae        | Auks,                     |
| Genus 1      | Mormon         | Puffin,                   |
| " 2          | Alca           | Auk,                      |

## Synopsis of Birds of North America (Audubon)

|         |          |            |
|---------|----------|------------|
| Genus 3 | Phalaris | Phalaris,  |
| " 4     | Mergulus | Sea-Dove,  |
| " 5     | Uria     | Guillemot, |

## Family XLV. Columbina Divers &amp; Grebes,

|         |          |         |
|---------|----------|---------|
| Genus 1 | Columbus | Divers, |
| " 2     | Podiceps | Grebe,  |

## Hudson Highlands

Arrival of Birds in the Spring  
of 1872

|   |          |
|---|----------|
| 1 Crow Blackbird (Quiscalus versicolor) Aud.    | March 10 |
| 2 Wild Pigeon (Columba migratoria) Aud & Wild   | " 11     |
| 3 Phoebe (Sayornis fuscus) Gm.                  | " 17     |
| 4 Fox-colored Sparrow (Passerella iliaca) (Aud) | " 20     |
| 5 Golden-shafted Flicker (Picus auratus) Aud    | " 22     |
| 6 Butcher Bird (Lanius excubitor) Wild & Aud    | " 25     |
| 7 Red-winged Blackbird (Icterus phoeniceus) Aud | " 25     |

1872

|  |         |
|--|---------|
| 1 Golden-winged Woodpecker (Picus auratus) Aud | Jan 11  |
| 2 Phoebe (Sayornis fuscus) Gm.                 | Mar. 26 |
| 3 Wood Thrush (Turdus mustelinus) Gm.          | " 26    |
| 4 Kingfisher (Alcedo Aleyon) DeKay             | " 26    |
| 5 Mallards in the Pond (Anas boschas) Linn.    | " 26    |
| 6 Passenger Pigeon (Columba migratoria) Aud.   | " 23    |
| 7 Spotted Sand Lark (Totanus macularius)       | April 1 |

## Arrival of Birds - 1872.

|  |         |
|--|---------|
| Red-winged Oriole (Icterus phoeniceus) Aud       | April 2 |
| 9 Carolina Turtle Dove (for Ectopistes) DeKay    | " 1     |
| 10 Solitary Tanager (Totanus chloropygius) DeKay | " 5     |
| 11 Whippoorwill (Caprimulgus vociferus) DeKay    | " 23    |
| 12 Brown Thrush (Orpheus rufus) DeKay            | " 26    |
| 13 Green Heron (Ardea virescens) "               | " 27    |
| 14 Chewink (Pipilo erythrophthalmus)             | " 27    |
| 15 Chimney Swallow (Chaetura pelagica)           | " 28    |
| 16 Barn Swallow (Hirundo rufa)                   | " 27    |
| 17 Yellow Bird (Cordulie tristis)                | May 2   |
| 18 Ruby-throated H. Bird. (Trochilus colubris)   | " 2     |
| 19 King Bird (Tyrannus intrepidus.)              | " 4     |
| 20 Cat Bird (Orpheus carolinensis)               | " 4     |
| 21 Scarlet Tanager (Pyrauga rubra) Vieill        | " 9     |
| 22 Baltimore Oriole (Icterus Baltimore)          | " 9     |
| 23 Orchard Oriole (Icterus spurius)              | " 9     |
| 24 Indigo Bird (Spiza cyanea)                    | " 10    |
| 25 Night Hawk (Chordeiles americanus)            | " 12    |

1873

|   |             |
|---|-------------|
| 1 Crow (Corvus americanus)                    | All Winter. |
| 2 White-bellied Nuthatch (Sitta carolinensis) | " "         |
| 3 Blue Jay (Garrulus cristatus)               | " "         |
| 4 Brown Creeper (Certhia americana)           | " "         |
| 5 Downy Woodpecker (Picus pubescens)          | " "         |
| 6 Black-cap Tit (Parus atricapillus)          | " "         |



## Notes Relative to the Migration of Birds

- 7 Partridge
- 8 Tree Sparrow
- 9 Snow Bird
- 10 Cedar Bird
- 11 Robin
- 12 Butcher Bird
- 13 Phoebe
- 14 Passenger Pigeon
- 15 Wood Duck
- 16 Red-breasted Merganser
- 17 Song Sparrow
- 18 Carolina Turtle Dove
- 19 Bald Eagle
- 20 Rusty Crow Black Bird
- 21 Fox-colored Sparrow
- 22 Canada Goose
- 23 Red-winged Blackbird
- 24 Golden-winged Woodpecker
- 25 Kingfisher
- 26 Wood Thrush
- 27 Purple Martin
- 28 Meadow Lark
- 29 Night Hawk
- 30 Solitary Lark
- 31 Ruby-crowned Kinglet
- 32 House Wren

All Winter

" "

" "

" "

" "

" "

March 19

" 19

" 24

" 24

" 15

" 28

" 28

" 30

" 30

" 23

" 31

" 31

" 31

April 8

" 9

" 10

" 14

" 19

" 23

" 28

## Notes Relating to the migration of Birds

- 33 Crow Blackbird April 29
- 34 Cow-bird " 29
- 35 Myrtle Bird May 1
- 36 Winter Gull April 1
- 37 White <sup>Throated</sup> ~~Crowned~~ Sparrow May 5
- 38 Barn Swallow April 29
- 39 Chimney Swallow May 6
- 40 Whippoorwill " 6
- 41 Chewink " 8
- 42 Brown Thrush " 8
- 43 Varied Creeping Warbler " 8
- 44 Redstart " 8
- 45 Golden Oriole " 11
- 46 Ruby-throated Humming Bird (Trochilus colubris) " 11
- 47 Bobolink " 12
- 48 Wood Pewee " 12
- 49 Yellow Bird " 12
- 50 Rose-breasted Grosbeak " 13
- 51 Black-winged Redbird " 13
- 52 Indigo Bird " 13
- 53 King Bird " 14
- 54 White-bellied Swallow " 15
- 55 Red-eyed Greenlet " 18
- 56 New York Water Thrush " 19
- 57 Orchard Oriole " 19
- 58 Yellow-breasted Chat " 24
- Yellow-bellied Flycatcher " 9

## Note Relating to the Migration of Birds

|   |         |
|---|---------|
| 58 Yellow-Throat  | May 24  |
| 59 Bay-breasted Warbler   | " 19    |
| 60 Hooded Warbler   | June 10 |
| 61 White-winged Crossbill (Purple Finch?)<br>(Undoubtedly a mistake.) | July 10 |

Time of Breeding of Birds

1872.

|   |          |
|---|----------|
| 1 Blue Bird ( <i>Sialia wilsoni</i> ) (1)               | April 16 |
| 2 Common Crow ( <i>Corvus americanus</i> ) (6)          | " 27     |
| 3 Broad-winged Hawk ( <i>Buteo pennsylvanicus</i> ) (2) | May 8    |
| 4 Robin ( <i>Merula migratoria</i> ) (5.3.4.1.4)        | " 11     |
| 5 Chip Sparrow ( <i>Tringilla socialis</i> ) (1)        | " 16     |
| 6 Green Heron ( <i>Ardea virescens</i> ) (5)            | July 3   |

1873

|   |          |
|---|----------|
| 1 Crow ( <i>Corvus americanus</i> ) (5)                       | April 18 |
| 2 Phoebe ( <i>Muscicapa fusca</i> ) (3)                       | " 19     |
| 3 Crow ( <i>Corvus Americanus</i> ) (5)                       | " 25     |
| 4 Phoebe ( <i>Muscicapa fusca</i> ) (3)                       | " 27     |
| 5 Crow ( <i>Corvus Americanus</i> ) (6)                       | " 14     |
| 6 Crow ( <i>Corvus Americanus</i> ) (4) (5)                   | " 30     |
| 7 Blue Bird ( <i>Sialia wilsoni</i> ) (4)                     | " 28     |
| 8 Robin ( <i>Merula migratoria</i> ) (1)                      | May 6    |
| 9 Song Sparrow ( <i>Tringilla melodia</i> ) (3)               | " 8      |
| 10 Crow Bird ( <i>Melothrus pecorus</i> ) (2 in Song Sparrow) | " 16     |
| 11 Cat Bird ( <i>Minus carolinensis</i> ) (4)                 | " 17     |
| 12 Blue Jay ( <i>Garrulus cristatus</i> ) (5.4)               | " 20     |

## Time of Breeding - (Birds)

|   |        |
|---|--------|
| 13 Common Crow ( <i>Corvus americanus</i> ) (4)   | May 24 |
| 14 Brown Thrush ( <i>Orpheus rufus</i> ) (4)  | May 24 |
| 15 Chip Bird ( <i>Tringilla socialis</i> ) (3)  | " 24   |
| 16 House Wren ( <i>Troglodytes aedon</i> ) (6)  | " 27   |
| 17 Spotted Sand Pisk ( <i>Totanus macularius</i> )                                      | " 27   |
| 18 Water Thrush ( <i>Seiurus <sup>nigricollis</sup> <del>noveboracensis</del></i> ) (4) | " 31   |
| 19 Field Bunting ( <i>Emberiza pusilla</i> ) (3)  | June 1 |
| 20 ( <i>Seiurus <sup>nigricollis</sup> <del>noveboracensis</del></i> ) (4)              | " 1    |
| 21 Broad-winged Hawk ( <i>Buteo pennsylvanicus</i> ) (2)                                | " 2    |
| 22 Marsh Wren ( <i>Troglodytes palustris</i> ) (3)                                      | " 4    |
| 23 Barn Swallow ( <i>Hirundo rufa</i> ) (3)   | " 1    |
| 24 Yellow-breasted Chat ( <i>Icteria veridax</i> ) (4)                                  | " 1    |
| 25 Yellow-breasted Chat ( <i>Icteria veridax</i> ) (4) (4)                              | " 3    |
| 26 Golden Oriole ( <i>Icterus Baltimore</i> ) (5)                                       | " 1    |
| 27 Least Flycatcher ( <i>Empidonax minimus</i> ) (4) (3) (4)                            | " 2    |
| 28 Deep, pendent nest in a bush (1) (1) <i>Geothlypis trichas</i>                       | " 3    |
| 29 Orchard Oriole ( <i>Icterus spurius</i> ) (1)  | " 5    |
| 30 King Bird ( <i>Tyrannus intrepidus</i> ) (1)   | " 7    |
| 31 King Bird ( <i>Tyrannus intrepidus</i> ) (4)   | " 9    |
| 32 Orchard Oriole ( <i>Icterus spurius</i> ) (5)  | " 9    |
| 33 Summer Yellow Bird ( <i>Sylvicola aestiva</i> ) (3)                                  | " 11   |
| 34 Bank Swallow ( <i>Hirundo alpestris</i> ) (2)  | " 12   |
| 35 Red-eyed Greenlet ( <i>Vireo olivaceus</i> ) (2)                                     | " 9    |
| 36 Flicker ( <i>Colaptes auratus</i> ) (6)  | " 11   |
| 37 Wood Pewee ( <i>Muscicapa virens</i> ) (3)   | " 12   |
| 38 Cliff Swallow ( <i>Hirundo fulva</i> ) (2.3.4.4.2.4.4.4.3)                           | " 9    |

# Time of Incubation of Birds.

|    |   |         |
|----|---|---------|
| 39 | Green Heron ( <i>Ardea virescens</i> ) (4 young)                | June 17 |
| 40 | Ruby-throated Humming Bird (2 young)                            | July 3  |
| 41 | Ruby-throated Humming Bird (2) ( <i>Trochilus columbianus</i> ) | " 27    |

## The Animals I have shot.

1870

- 13 Red Squirrels (*Sciurus hudsonius*) Pennant
- 2 Woodchucks (*Arctomys monax*) Linnaeus
- 3 Gray Rabbits (*Sciurus migratorius*) Aud. & Back.
- 1 Skunk (*Mephitis mephitis*) Shaw
- 12 Golden-winged Woodpeckers (*Colaptes auratus*)
- 1 Kingfisher (*Alcedo alcyon*)
- 1 Green Heron (*Ardea virescens*)
- 1 Common Crow (*Corvus Americanus*)
- 1 Black-billed Cuckoo (*Coccyzus erythrophthalmus*)
- 1 Pigeon Hawk (*Falco columbarius*)
- 3 Broad-winged Hawk (*Buteo pennsylvanicus*)
- 1 Cooper's Hawk (*Accipiter cooperi*)
- 4 Blue Jays (*Garrulus cristatus*)
- 2 Wild or Passenger Pigeons (*Ectopistes migratoria*)
- 2 Mallards (*Anas boschas*)
- 1 Whippoorwill (*Caprimulgus vociferus*)
- 1 Woodcock (*Rusticola minor*)
- 2 Spotted Sandlarks (*Tringus macularius*)
- 4 Solitary Titlarks (*Tringus chloropygius*)
- 3 Tree Sparrows (*Emberiza caudata*) at a shot

# Animals I have shot.

1871

- 19 Red Squirrels (*Sciurus hudsonius*) Pennant.
- 5 Gray Rabbits (*Lepus sylvaticus*) Bachman.
- 1 Woodchuck or Ground Hog (*Arctomys monax*) Linnaeus
- 1 Flying Squirrel (*Pteromys volucella*) Gmelin
- 11 Golden-winged Woodpecker (*Colaptes auratus*)
- 10 Belted Kingfishers (*Alcedo alcyon*)
- 7 Green Herons (*Ardea virescens*)
- 3 Common Crows (*Corvus americanus*)
- 2 Black-billed Cuckoos (*Coccyzus erythrophthalmus*)
- 5 Passenger Pigeons (*Ectopistes migratoria*)
- 1 Yellow-billed Cuckoo (*Coccyzus americanus*)
- 3 Red-winged Blackbird (*Icterus phoeniceus*)
- 2 Partridges; Ruffed Grouse (*Tetrao umbellus*)
- 1 Buffle Head Duck (*Buligula albeola*)
- 2 Carolina Turtle Doves (*Ectopistes*)
- 1 Woodcock (*Rusticola minor*)
- 1 Northern Shrike (*Lanius septentrionalis*)
- 1 Purple Grackle (*Quiscalus versicolor*)
- 4 Solitary Titlarks (*Tringus chloropygius*)
- 3 Spotted Sandlark (*Tringus macularius*)
- 11 Blue Jays (*Garrulus cristatus*)
- 1 Pigeon Hawk (*Falco columbarius*)
- 1 Sharp-shinned Hawk (*Accipiter fuscus*)
- 1 Whippoorwill (*Caprimulgus vociferus*)



## Animals I have shot.

1 Night Hawk (*Nyctaleides americanus*)

1 Red-winged Oriole (*Icterus phoeniceus*) on the wing.

5 Cedar Birds (*Bombycilla carolinensis*) at a shot

4 " " ( " " ) at a shot

2 " " ( " " ) " " "

2 " " ( " " ) " " "

2 " " ( " " ) " " "

2 " " ( " " ) " " "

1 Robin (*Merula migratoria*) & 1 King Bird (*Tyrannus intrepidus*) at a shot.

2 Red-eyed Greenlets at a shot (*Virio olivaceus*)

2 Robins (*Merula migratoria*)

2 Chipmunks (*Tamias striatus*) at a shot.

1872

1 Woodchuck (*Arctomys monax*) Linnaeus.

17 Gray or Common Rabbits (*Lepus sylvaticus*) Bachman.

24 Red Squirrels (*Sciurus hudsonius*) Pennant.

1 Migratory Squirrel (*Sciurus migratorius*) Aud & Bach.

1 Common Flying Squirrel (*Pteromys volucella*)

1 Creek Broadbill or Little Black Head (*Ptilix affinis*) Baird.

6 Belted Kingfisher (*Alcedo alleyon*)

2 Green Herons (*Ardea virescens*)

5 Passenger Pigeons (*Ectopistes migratoria*)

3 Blue Jays (*Garrulus cristatus*)

## Animals I have shot.

1 Broad-winged Hawk (*Buteo pennsylvanicus*)

~~1 Rough-legged Hawk (*Archibuteo lagopus*)~~

2 Sharp-shinned Hawks (*Accipiter fuscus*)

2 Whippoorwill (*Caprimulgus vociferus*)

3 Spotted Sandlarks (*Tringus macularius*)

1 Solitary Bitter (*Tringus chloropygius*)

2 Northern Butcher Birds (*Lanius septentrionalis*)

2 Woodcock (*Austicola minor*)

1 Red-winged Blackbird (*Icterus phoeniceus*)

6 Rusty Crow Blackbirds (*Quiscalus ferrugineus*)

9+ Robins (*Merula migratoria*)

3 Partridges; Ruffed Grouse (*Tetrao umbellus*)

3 Common Crows (*Corvus americanus*)

13+ Cedar Birds (*Bombycilla carolinensis*)

1 Black-billed Cuckoo (*Coccyzus erythrophthalmus*)

1 Ruby-throated Hummingbird (*Trochilus colubris*)

3 Yellow-billed Cuckoos (*Coccyzus americanus*)

11 Golden-winged Woodpeckers (*Colaptes auratus*)

6+ Brown Thrush (*Oryzopsis rufus*)

2 Baltimore Orioles (*Icterus baltimore*) at a shot

3 Cedar Birds (*Bombycilla carolinensis*) " " "

3 " " ( " " ) " " "

4 " " ( " " ) " " "

2 King Birds (*Tyrannus intrepidus*) " " "

2 Chewinks (*Pipilo erythrophthalmus*) " " "

2 Cat Birds (*Mimus carolinensis*) " " "

## Animals I Have Shot.

- 1 Song Sparrow (*Tringilla melodia*) with a  
"Colt's Revolver at 18 paces.  
1 Woodcock (*Rusticola minor*) on the wing  
1 Ruffed Grouse (*Tetrao umbellus*) on the wing  
1 Crow (*Corvus americanus*) " " "  
1 Red-winged Starling (*Pterus phoeniceus*) on the wing  
1 Belted Kingfisher (*Alcedo alcyon*) " " "  
1 Robin (*Merula migratoria*) " " "  
2 Chimney Swallows (*Chaetura pelagica*) " " "  
11 Robins (*Merula migratoria*) at a shot  
2 " ( " " ) " " "  
2 " ( " " ) " " "

1873

- 13 ~~White~~ Gray Rabbits (*Lepus sylvaticus*) Bachman  
1 Migratory Squirrel (*Sciurus migratorius*) Aud. & Bach.  
9+ Red Squirrels (*Sciurus hudsonius*) Permant.  
2 ~~Yellow~~ Bats (*Vespertilio pruinosus*)  
1 New York Bat (*Vespertilio noveboracensis*)  
4 Flying Squirrels (*Pteromys volucella*) Gmelin.  
4 Skunks (*Mephitis mephitis*) Shaw.

- 1 Passenger Pigeon (*Ectopistes migratoria*)  
3 Rusty Crow-Blackbirds (*Zonotrichia ferruginea*)  
3 Yellow-bellied Woodpeckers (*Picus varius*)  
1 Red-tailed Hawk (*Buteo borealis*)  
2 Fish Hawks (*Pandion carolinensis*)

## Animal I have shot.

- 1 Bald Eagle (*Haliaeetus leucocephalus*)  
3 Belted Kingfishers (*Alcedo alcyon*)  
5 Woodcocks (*Rusticola minor*)  
8 Yellow-shafted Flicker (*Colaptes auratus*)  
3 Reed Birds (*Polichonys oregonus*)  
4 Green Herons (*Ardea virescens*)  
1 Olive-sided Flycatcher (*Tyrannus cooperi*)  
1 Great-Crested " (*Tyrannus crinitus*)  
1 Whippoorwill (*Caprimulgus vociferus*)  
2 Broad-winged Hawks (*Buteo pennsylvanicus*)  
2 Black-billed Cuckoos (*Coccyzus erythrophthalmus*)  
4 Rose-breasted Grosbeak (*Coccyzus ludovicanus*)  
1 Purple Grackle (*Quiscalus versicolor*)  
1 Buffle Head Duck (*Tringa albeola*)  
2 Northern Butcher Bird (*Lanius septentrionalis*)  
10 Ruffed Grouse (*Tetrao umbellus*)  
15 Blue Jays (*Corvus cristatus*)  
35+ Robins (*Merula migratoria*)  
27+ Cedar Birds (*Bombicilla carolinensis*)  
5 Barn Swallow (*Hirundo rufus*)  
2 Spotted Sandlark (*Zonotrichia macularius*)  
2 Solitary Vatter (*Zonotrichia chloropygia*)  
6 Chimney Swallows (*Chaetura pelagica*)  
1 Winter Gull (*Larus argentatus*)  
9 Cedar Birds (*Bombicilla carolinensis*) at a shot  
8 " ( " " ) " " "

## Animals I have Shot.

- |  |             |
|--|-------------|
| 4 Cedar Birds ( <i>Bombus cilla carolinensis</i> )               | at a shot   |
| 2 " " ( " " )  | " " "       |
| 2 Purple Finches ( <i>Erythrositta purpurea</i> )                | " " "       |
| 2 Robins ( <i>Merula migratoria</i> )                            | " " "       |
| 3 " ( " " )  | " " "       |
| 2 " ( " " )  | " " "       |
| 5 Ruffed Grouse ( <i>Tetrao umbellus</i> )                       | on the wing |
| 4 Woodcock ( <i>Rusticola minor</i> )                            | " " "       |
| 1 Olive-sided Flycatcher ( <i>Tyrannus cooperi</i> )             | on the wing |
| 1 Robin ( <i>Merula migratoria</i> )                             | " " "       |
| 2 Solitary Terns ( <i>Totanus chloropygus</i> )                  | " " "       |
| 3 Green Heron ( <i>Ardea virescens</i> )                         | " " "       |
| 2 Reed Birds ( <i>Dolichonyx oryzivora</i> )                     | " " "       |
| 2 Chimney Swallows ( <i>Hirundo pelagica</i> )                   | " " "       |
| 2 Barn Swallows ( <i>Hirundo rufa</i> )                          | " " "       |
| 1 Indigo Bird ( <i>Spiza cyanea</i> )                            | " " "       |
| 1 Flicker ( <i>Colaptes auratus</i> )                            | " " "       |
| 2 Bats ( <i>Vesperugo Volucella</i> & <i>V. noveboracensis</i> ) | " " "       |
| 1 Winter Gull ( <i>Larus argentatus</i> )                        | " " "       |
| 1 Gray Rabbit ( <i>Lepus nanus</i> ), Dr. Kay, running, with     |             |
| a Colt's Revolver.   |             |

## Measurements - Eggs &amp;c. By James H. De Kay

Cayenne Tern  
Length 16.0-19.0

Black Tern  
Length 8.0-9.0

Mexican Tern  
Length 12.5-14.0

From 3-4 greenish olive eggs, spotted with brown.

Arctic Tern  
Length 14.0-15.0

Sandwich Tern  
Length 15.5-16.0

Eggs yellowish grey, spotted and blotched with pale blue and reddish.

Roseate Tern  
Length 14.0-15.0

Silvery Tern  
Length 9.0-10.0

Eggs light yellowish white, with irregular dark brown spots and blotches.

Winter Gull  
Length 24.0-28.0

Bill 2.1 inches from above. Eggs dull yellowish, blotched and spotted with dark umber.

Great Black-backed Gull.  
Length 28-30 - This is the largest Gull that appears on our coast.



Swimmers or NatatoresCommon American Gull.

Length 15.0 - 18.0 or 18.0 - 20.0.

Laughing Gull; Black-headed Gull.

Length 15.0 - 17.0

Eggs drab, blotched and spotted with reddish brown, most numerous at the larger end.

Bonaparte's Gull

Length 14.0 - 17.0

Fork-tailed Gull

Length 13

Eggs olive-colored, blotched with brown.

Kittawake; Three-toed Gull

Length 16.0 - 18.0

Eggs light olive green, with numerous irregular spots of dark brown.

Arctic Hawk Gull

Length 15.0

Richardson's Hawk Gull

Length 16

Pomarine Hawk Gull

Length 17.5

Buff-Breasted Sheldrake

Length 26 - 28

Eggs pale olive, tinged with buff.

Red-Breasted Sheldrake

Length 23 - 25 - Eggs 6 - 8 of a uniform dull yellowish color.

Swimmers or Grallatores.Hooded Sheldrake.

Length 17.5 - 19.0

Eggs and food like the Red-breasted Canada-back Duck.

Length 20.0 - 22.0

Red-head Duck

Length 18.0 - 20.0

Broadbill; Raft Duck.

Length 19.0 - 19.5

Creek Broadbill

Length 17.0

Bastard Broadbill

Length 16.0 - 18.0

Pied Duck

Length 18.0 - 20.0

Ruddy Duck

Length 15.0 - 16.0

Old Wife; South Southerly.

Length 18.0 - 20.0 exclusive of tail.

Buffle-head Duck

Length 13.0 - 14.0

Whistler; Golden-Eye

Length 17.0 - 20.0

Eggs nine, of a greenish color.

Harlequin Duck

Length 24.0 - 25.0 Eggs 6 - 10 pale olive green. Larvs 12 - 14 greenish yellow eggs.

Swimmers or Natatores.Eider Duck.

Length 24.0-25.0 Eggs 6-10 pale olive green.

King Duck.

Length 21.0-25.0 Eggs 5 or 6 uniform dull greenish

Surf D.; Sea Coot.

Length 19.0-20.0. Eggs cream-colored 5 or 6 in No.

Broad-billed Coot.

Length 17.0-19.0

White-winged Coot.

Length 22.0-23.0. The eggs are uniform pale cream-color.

Wood Duck.

Length 19.0-20.5. Eggs yellowish white.

Blue-winged Teal.

Length 15.0-16.0.

Eggs 15-18 of a delicate cream-color.

Green-winged Teal.

Length 13.5-14.5 Eggs dull yellowish white.

Pink Tail Duck.

Length 22-25. The eggs are said to be greenish white, tinged with buff.

Shoveller; Spoon-bill.

Length 17.5-20.0. Eggs 12-14 pale greenish yellow.

Grey Duck; Gadwall.

Length 18.0-21.0.

Eggs greenish grey.

Swimmers or Natatores.Black Duck.

Length 22.0-24.0 Eggs 8-10 dull white color.

American Widgeon; Bald Pate.

Length 18.5-20.5

European Widgeon.

Length 26.0

Mallard.

Length 24.0-25.0

Wild or Canada Goose.

Length 40-42. Eggs dull yellowish green.

White-fronted Goose.

Length 27.0-28.0

Snow Goose.

Length 27-31

Brant; Brent Goose.

Length 22.0-25.0

Hutchinson's Goose

Length 25.0-27.0

American Swan

Length 53.0-60.0

Eggs 5-7 greenish.

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Resident Birds 1874

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| Goosander ( <i>Mergus americanus</i> )                         | --- | All Winter |
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| Buffle Head Duck ( <i>Bucephala albeola</i> )                  | --- | All Winter |
| Old Wife Duck ( <i>Hearelda glacialis</i> )                    | --- | All Winter |
| Downy Woodpecker ( <i>Picus pubescens</i> )                    | --- | All Winter |
| Butcher Bird ( <i>Collyrio borealis</i> )                      | --- | All Winter |
| Song Sparrow (Rare) ( <i>Melospiza melodia</i> ) (Feb 26)      | --- | All Winter |
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| Partridge ( <i>Bonasa umbellus</i> )                           | --- | All Winter |
| Snow Bird ( <i>Junco hyemalis</i> )                            | --- | All Winter |
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| Cedar Bird ( <i>Ampelis cedrorum</i> )                         | --- | All Winter |
| Blue Bird ( <i>Sialia sialis</i> )                             | --- | All Winter |
| Blue Jay ( <i>Cyanura cristata</i> )                           | --- | All Winter |
| Robin ( <i>Merula migratoria</i> )                             | --- | All Winter |
| Black-cap Tit ( <i>Parus atricapillus</i> )                    | --- | All Winter |
| Red-tailed Hawk ( <i>Buteo borealis</i> )                      | --- | All Winter |
| Bald Eagle ( <i>Haliaeetus leucocephalus</i> )                 | --- | All Winter |



## Birds of Chile

## BIRDS.

By J. Cassin

Order I. RAPTORES.

- 1 *Sarcorampbus gryphus*, (Linn.) Condor, Condor & Buteo
- 2 *Cathartes jota*, (Molina.) S. Am. Turkey Vulture
- 3 *Cathartes atratus*, (Bartram.) Black Vulture.
- 4 *Polyborus tharus*, (Molina.) Zaracora Eagle.
- 5 *Morphnus uricinctus*, Red-winged Buzzard
- 6 *Milvaga chimango*, (Vieill.) Eagle.
- 7 *Pontioctus melanoleucus*, (Vieill.) Aquila
- 8 *Buteo erythronotus*, (King.) Red-backed Buzzard.
- 9 *Elanus lucurus*, (Vieill.) White-tailed Hawk.
- 10 *Circus cinereus*, Vieill., Nebli.
- 11 *Circus macropiterus* Vieill.
- 12 *Falco nigriceps*, Cassin
- 13 *Tringoides sparverius*, (Linn.) Sparrow-Hawk
- 14 *Hypotriorchis femoralis*, Temm. Alcon or Halcon
- 15 *Strix perlata*, Licht. S. Am. Barn Owl
- 16 *Bubo crassirostris*, (Vieill.) S. Am. Horned Owl.
- 17 *Otus brachyotus*, (Forster.) Short-eared Owl.
- 18 *Athene cucularia*, (Molina.) Burrowing Owl.
- 19 *Glaucidium nanum*, (Vieill.) Quail Owl.

Birds of Chile.Order II. INCESSORES.Tribe I. CONIROSTRES.

- 20 *Paracolinus curaeus*, (Molina) Chilean Bk. Bird
- 21 *Agelaius thilius* (Molina.) Yellow-winged Bk. Bird
- 22 *Sturnella militaris*, (Linn.) Chilean Lark
- 23 *Phrygilus fructiceti* (Kittlitz)
- 24 *Phrygilus unicolor* (D'Orbigny.)
- 25 *Phrygilus diuca*, (Molina.) Duica.
- 26 *Phrygilus gayi* (Eyndoux & Gervais) Gay's Finch.
- 27 *Zonotrichia oratitina* (Richtenstein) Collared Sparrow.
- 28 *Erithagra luteiventris*, (Meyen)
- 29 *Chrysomitris atratus*, (D'Orb and Lafres.)
- 30 *Chrysomitris marginalis*, Bonap.
- 31 *Calliste cyanicollis*, (D'Orbigny) Blue-headed Tanager.
- 32 *Calliste larvata*, Lafres
- 33 *Calliste gyroloides*, (Lafres) Peruvian Tanager.
- 34 *Calliste desmarestii* (Gray)
- 35 *Euponia rufiventris*, (Du Bus)
- 36 *Euponia occipitalis*, Du Bus.
- 37 *Phytotoma rara*, Molina. Rara.

Tribe II. DENIROSTRES.

- 38 *Agornis lividus*, (Kittlitz). Mer.
- 39 *Mimus thenca*, (Molina). Chile Mocking Bird.
- 40 *Merula falklandica*, (Quoy and Gaimard)
- 41 *Merula fuscata*, (D'Orb. et Lafres.) Gorzal.
- 42 *Pteroptochus megapodius*, Kittlitz, Gt. footed Ground Thrush
- 43 *Pteroptochus albicollis*, Kittlitz, White-throated Ground Thrush



Birds of Chile.

- 44 *Lichenopsis erythrotus*, Gould. Coalial,  
 45 *Taenioptera pyrope*, (Kittlitz) Garnet-eyed Fly-catcher.  
 46 *Ptyonura mentalis*, (Lafresnaye)  
 47 *Ptyonura rufivertex*, (Lafresnaye)  
 48 *Cyanotis ornicolor*, Vieill. Blue-color.

Tribe III. EISSIROSTRES.

- 49 *Sternopsis parvulus*, (Gould) Gallina cuca.

Tribe IV. TENUIROSTRES.

- 50 *Trochilus gigas*, Vieill. Giant Humming Bird.  
 51 *Trochilus galerita*, Molina. Fire-crowned Humming Bird.  
 52 *Trochilus leucopleurus* (Gould) White-sided Mountain Hum. Bird.  
 53 *Lincolnes vulgaris* (O'Orb. and Taf.) Churrete.  
 54 *Lincolnes nigrofurnosus*, (O'Orb. and Taf.) Molinero.  
 55 *Uppucerthia dumetoria*, Geoffr.  
 56 *Circornis melanura*, Gray.  
 57 *Synallaxis dorso-maculata*, O'Orb. and Taf.  
 58 *Scytalopus fuscus*, Gould. Churcan Negro.

Tribe V. SCANSORES.

- 59 *Conurus cyanolyptus*, (Molina) Patagonian Parrot.  
 60 *Psittacara leptorhyncha*, King. Chory.  
 61 *Psittacara smaragdina*, (Gm.)  
 62 *Psittacus ochrocephalus*, Gmelin. Chory  
 63 *Colaptes pitius*, Molina. Carpintero.  
 64 *Picus lignarius*, Molina.

Order III. RASORES.

- 65 *Columba araucana*, Less. Tortoise.  
 66 *Penida aurita*, (Temm.) Tortola, Tortolita.

Birds of Chile.

- 67 *Columbina streptopus*, (Spix.) Tortolita Cordillerana  
 68 *Thinocorus orbignyianus*, Less. Agachadera. Petaguito  
 69 *Thinocorus rumicivorus*, Eichsch.  
 70 *Utagis gayii*, Less. Perdiz Cordillerana.  
 71 *Nothura perdicaria*, (Kittlitz.) Perdiz.

Order IV. GRALLATOES.

- 72 *Ardea coccy*, Linn. Patagonian Heron  
 73 *Egretta galatea* (Molina) Greater White Heron.  
 74 *Egretta thula*, (Molina.) Lesser White Heron.  
 75 *Nycticorax gardeni*, (Gm.) Night Heron.  
 76 *Bautaurus exilis*, (Gm.) Least Bittern.  
 77 *Colapax paraguayae*, Vieill. Unecarina.  
 78 *Rhynchoceros semicollaris*, (Vieill.) Painted Snipe  
 79 *Numenius hudsonicus*, Lath. Short-billed Curlew.  
 80 *Calidris arenaria* (Linn.) Sanderling. Pollito blanco.  
 81 *Pelidna pectoralis*, (Say) Pollito negro.  
 82 *Hiaticula trifasciata* (Gicht.) Banded Plover. Angchito.  
 83 *Hiaticula azarae*, (Temm.) Azara's Plover.  
 84 *Vanellus cayennensis*, (Gm.) S. Am. Lapwing.  
 85 *Rallus caesi*, (Spix) Hairy Rail.  
 86 *Gallinula crassirostris*, (Gray) Thick-billed Gallinule  
 87 *Himantopus nigricollis*, Vieill. Perito. The Stilt  
 88 *Tringa chilensis*, Gay. Chilean Coot. Togueta.  
 89 *Ciconia pillus* (Molina) American Stork. Pillo.  
 90 *Ibis melanopus* (Gm.) Black-faced Ibis. Bandurria.  
 91 *Ibis guarana*, (Linn.) Southern Glossy Ibis. Cuervo.  
 92 *Platalea ajaja* Linn. Roseate Spoonbill. Maneta. Eucharata.

Birds of Chile

- 93 *Haematopus palliatus*, Temm. Oyster-catcher. Tira-tira.  
 94 *Haematopus ater*, Vieill. Black Oyster-catcher. Peripilen.  
 95 *Phoenicopiterus ignipalliatus*, L. Geoffr. Flamenco. Lechugu.  
 96 *Phoenicopiterus andinus*, Philippi. Parrina.

"Mean dimensions of 3 individuals:

|   |            |
|---|------------|
| Length from end of bill to apex of tail | 35½ Inches |
| " of the bill along the upper mandible  | 4¾ "       |
| " " " " " " " " " " " "                 | 9½ "       |
| " " " " " " " " " " " "                 | 9 "        |
| " " " " " " " " " " " "                 | 2½ "       |

Order V. NATATOES.

- 97 *Cygnus nigricollis*, (Gm.) Black-necked Swan. Lewine.  
 98 *Bernicla antarctica*, (Gm.) Antarctic Goose.  
 99 *Bernicla magellanica*, (Gm.) Magellanic Goose. Gancillo.  
 100 *Bernicla melanoptera*, (Gm.) Black-winged Goose. Pinguen.  
 101 *Mareca Chilensis*, (King). Chile Widgeon. Patoreal.  
 102 *Anas oxyura*, Meyer.  
 103 *Anas specularis*, King. Pato antigillo.  
 104 *Anas melanoccephala*, Vieill. Pato rinconero.  
 105 *Querquedula cyanoptera*, Vieill. Red Seal

One leaf missing.

*Larus bridgesii*, Fraser.

*Podiceps leucopterus*, King. White-winged Grebe.

*Podilymbus brevirostris*, Gray. Pinarrio.

*Phalacrocorax brasilianus*, Gm. Brazilian Cormorant.

*Phalacrocorax garinardi*, (Garrard) Garrard's Cormorant.

*Pelecanus thagus*, Molina. Vult. Alcatraz.

Measurements, Description of Eggs &c according to Dr. Kay

Turkey Buzzard—

Length 30.0—32.0. Extent of wings 72.0—76.0.

Eggs 2—, yellowish white, with dark brown blotches, particularly at the larger end. Nearly 3 inches in length.  
 Eyes dark hazel.

Bald Eagle—

Length 36.0—40.0. Extent of wings 84.0.

Eggs 2—3 dull white, unspotted. The nest is built in a tree.

Weight 8—12 lbs.

Golden Eagle—

Length 35.0—40.0. Extent of wings 80.0—84.0.

Eggs usually 2, brownish white with scattering brownish streaks. 3½ inches long.

Slate-colored Hawk—

Length 10.0—15.0. Alar extent 20.0—25.0.

Eggs 4—5 white thickly covered with reddish blotches.

Rough-legged Buzzard—

Length 20.0—25.0.

Food—mice, small birds, frogs &c.

American Goshawk—

Length 22.0—24.0. Extent of wings 40.0—45.0.

Eggs bluish white, granulated (in a tree).

Marsh Harrier—

Length 18.0—22.0. Alar extent 41.0—47.0.

Eggs 7. smooth rounded bluish white (on the ground).

## Raptors or Birds of Prey.

Owl Hawk —

Length 15.0-18.0. Alar extent 36.0-44.0

Pigeon Hawk

Length 10.0-12.0. Alar extent 22.0-25.0

Coopers Hawk —

Length ~~18.0-22.0~~ Alar extent 30.0-32.0

3-4 Round rough white eggs

Broad-winged Buzzard —

Length 14.0 Alar extent 32.0

Red-shouldered Buzzard —

Length 14.0-21.0

Eggs 4-5, bluish, faintly tinged blotched with reddish at the smaller end. (In a tree)

Iris hazel

American Sparrow Hawk —

Length 10.0-12.0 Alar extent 20.0-23.0

Eggs 5-7, buff colored, with dark blotches

Sharp-tailed Hawk —

Length 15.0- Alar extent 34.0

Red-tailed Hawk —

Length 20.0-24.0

Irides dark hazel.

Fish Hawk —

Length 21.0-24.0 Alar extent 50.0-60.0

Eggs 3-4, dull white, thickly with brown

Irides yellow.

## Climbers or Scansores.

Hawk Owl —

Length 15.0-15.0

Snow Owl —

Length 22.0-29.0

Barred Owl —

Length 17.0-22.0

St. Horned Owl —

Length 20.0-25.0 Alar extent 56.0-60.0

Eggs 3-4, white, unspotted.

Acadian Owl —

Length 8.0-10.0 Alar extent 15.0-20.0

4-6 white eggs.

Long-eared Owl —

Length 14.0-17.0

Little Screech Owl —

Length 8.0-12.0

Eggs 3-4, white, rounded (In hollow tree)

Irides yellow

Short-eared Owl —

Length 13.0-17.0

American Barn Owl —

Length 14.0-18.0 Alar extent 42.0-46.0

St. Grey Owl —

Length 25.0-30.0

Black-billed Cuckoo —

Length 11.5-12.5 Alar extent 15.0-16.0



## Climbers or Scansores -

## Yellow-billed Cuckoo -

Length 11.5 - 12.5. Alar extent 15.0 - 16.0

Eggs bluish green unspotted.

## Hairy Woodpecker -

Length 8.0 Alar Spread 15.0

Eggs white unspotted.

## Golden-winged Woodpecker -

Length 12.0 - 13.0 Alar extent 17.0 - 19.0

Eggs pure white

## Downy Woodpecker -

Length 6.5 - 7.0

Eggs white immaculate -

## Red-headed Woodpecker -

Length 8.5 - 9.0. Alar Spread 16.0 - 17.0

Eggs white, with reddish spots at the larger end.

## Arctic Woodpecker -

Length 10.5 Alar Spread 16.0

Eggs pure white

## Banded Woodpecker -

Length 8.0 Alar extent 15.0

## Red-bellied Woodpecker

Length 8.5 - 10.0

## Yellow-bellied Woodpecker -

Length 8.0 - 8.5. Alar Spread 14.0 - 15.0

Eggs white unspotted

## Archers or Insessores -

## Crested Woodpecker -

Length 18.0 - 20.0 Alar spread 28.0 - 29.5

Eggs 5-6 white.

## Whippoorwill -

Length 9.0 Alar extent 19.0.

Eggs 2 or 3, bluish white, with numerous dark olive and bluish blotches.

## Night Hawk -

Length 9.0 - 10.0. Alar extent 23.0 - 24.0

Eggs usually 2 rather oblong, equally thick at both ends, of a dirty bluish white, and marked with numerous touches of dark olive brown.

## Chimney Swallow -

Length 4.0 - 5.0

Eggs 3-5 pure white, oblong.

## Bank Swallow -

Length 5.0 - Alar Spread 10.5

Eggs 4-5 Pure white.

## Barn Swallow -

Length 6.5 - 7.0

Eggs 4-6, white, thinly spotted with reddish brown.

## Cliff Swallow.

Length 5.0 - 5.5. Alar extent 12.0 - 13.0.

Eggs 4-5 white, spotted with brown.

## White-bellied Swallow -

Length 5.0 - 5.5.

Eggs 4-6 pure white.

## Perchers or Insessores.

## Purple Martin—

Length 7.0 - 8.0

Eggs 4-6 white unspotted.

## Belted Kingfisher—

Length 12.0 - 12.5

Eggs 4-6, white unspotted.

## Wood Wren—

Length 4.55

## Mocking Wren—

Length 5.5 - 6.0

Eggs 5-8, greyish, spotted with brown.

## Winter Wren

Length 3.5 - 4.0

Eggs 10.8 - 12.8 dull whitish with a few reddish spots at the larger end.

## Short-billed Wren—

Length 4.0 - 4.5

Eggs 6-8 pure white. Nest highly artificial in sedge grass.

## Crested Tit

Length 6.0 - 6.5

Eggs 2-6, white, with sprinkled red at the larger end.

## Marsh Wren—

Length 4.5 - 5.0

Eggs 4-8, small, mahogany colored.

## Black Cap Tit—

Length 5.0 - 5.5

Eggs 6-8, pure white.

## Perchers or Insessores.

## Carolina Tit—

Length 4.25 - 4.5

## Golden-crested Kinglet—

Length 4.0. Alar extent 7.1

## Ruby-crowned Kinglet—

Length 4.5 Alar extent 6.6

## Blue Bird—

Length 6.5 - 7.0 Alar extent 9.5 - 11.0

Eggs light blue unspotted.

## Mocking Bird—

Length 10.0 Alar extent 14.6

Eggs 4-6, pale green, spotted and blotched with brown.

## Brown Thrush—

Length 11.5 - 21.0. Alar extent 13.0 - 13.5.

Eggs 4-6, greenish white, with numerous dots of buff (dull buff, Audubon)

## Cat Bird—

Length 9.0. Alar extent 12.0

Eggs 4-5, unspotted greenish.

## American Robin—

Length 9.0 - 10.0

Eggs 4-6, bluish green unspotted.

## Wood Thrush—

Length 7.5 - 8.0 Alar extent 13.0

Eggs, except in size do not differ from the robins.

## Perchers or Insectores.

Hermit Thrush -

Length 6.5 - 7.5. Alar extent 10.5 - 11.0

Olive-backed Thrush -

Length 7.6

Wilson's Thrush -

Length 6.5 - 7.5.

Eggs 4-5, green, unspotted -

American Titlark -

Length 6.5 - 7.6

Eggs 4-5, deep reddish brown, with spots and streaks of deeper hue

N. Y. Water Thrush -

Length 6.0 - Alar extent 9.5 -

Eggs 4-5, flesh-colored, sprinkled with dark red at the larger end

Oven Bird -

Length 6.0 - Alar extent 9.0

Eggs 4-5, white, spotted with brown at the larger end.

Yellow-Throat -

Length 5.6 - 5.3. Alar extent 6.0 - 6.5.

Eggs 4-6 White, sprinkled with reddish brown. Nestlike as oven bird's.

Mourning Warbler -

Length 5.0 - 5.5. Alar extent 1.0 - 8.0.

Worm-eating Warbler -

Length 5.0 - 5.5. Alar extent 8.0 - 8.5.

Eggs 4-5, light buff-colored with a few reddish spots

## Perchers or Insectores.

at the larger end.

Whistling Warbler -

Length 5.5. Alar extent 8.5.

Blue-winged Warbler -

Length 4.5 - 5.0 Alar extent 7.0

Tennessee Warbler -

Length 4.7 - Alar extent 8.0

Myrtle Bird -

Length 5.0 - 6.0 - Alar extent 8.5 - 9.0

Eggs 4-5, flesh-colored, sparsely dotted with red in a ring around the larger end.

Red-poll Warbler -

Length 4.5 - 5.0 Alar extent 8.0 - 9.0

Spotted Warbler -

Length 4.5 - 5.0 - Alar extent 7.5.

Eggs 4-5, small white sprinkled with red at the larger end.

Spotted Canada Warbler -

Length 4.6 - 5.0 Alar extent 8.5 - 9.0

Blue Grey Warbler -

Length 4.5. Alar extent 8.0.

Blackburnian Warbler -

Length 4.5 - 5.0 Alar extent 7.0 - 8.0

Eggs white, with a few spots of red at the larger end.

Bay-breasted Warbler -

Length 5.3 Alar extent 11.0



## Archers or Insessores.

## Black-oll Warbler -

Length 5.5 - 6.0. Alar extent 8.5 - 9.0.

## Prairie Warbler -

Length 4.5 - 5.0 - Alar extent 6.0 - 7.0.

Eggs 4-5, white with brown spots in a circle around the larger end. Nest in a low bush.

## Blue Yellow-backed Warbler -

Length 4.5 - Alar extent 6.5.

## Black-throated Blue Warbler -

Length 4.5 - 5.0 - Alar extent 7.0 - 7.5.

It breeds in Nova-Scotia, laying 4-5 flesh-colored egg sprinkled sparsely with red at the larger end.

## Summer Yellow Bird -

Length 4.5 - 4.7. Alar extent 7.0 - 8.0.

Eggs 4-5, light bluish dotted with brown at the larger end.

## Black-throated Green Warbler -

Length 4.5 - 5.0 - Alar extent 7.5 - 8.0.

## Pine Warbler -

Length 5.0 - 5.5 - Alar extent 8.0 - 8.5.

Eggs greenish white with numerous pale brown spots.

## Chestnut-sided Warbler -

Length 4.5 - 5.0 - Alar extent 7.5 - 8.0.

## Hemlock Warbler -

Length 5.5 - 6.0 - Alar extent 8.0 - 9.0.

## Cape May Warbler -

Length 4.5 - 5.5 - Alar extent 7.5 - 8.5.

## Parchers or Insessores.

## Kentucky Warbler -

Length 5.0 - 5.5 - Alar extent 7.0 - 8.0.

The eggs are described as white finely sprinkled with bright red dots.

## Hooded Warbler -

Length 5.0 - 5.5 - Alar extent 5.0.

Lays 4-6 greyish eggs with reddish brown spots at the larger end.

## Green Black-capped Warbler -

Length 4.0 - 4.5 - Alar extent 6.0 - 6.5.

They build their nests in low bushes, laying about 4 eggs greyish sprinkled with reddish dots in a circle around the larger end.

## Blue Grey Quatcher -

Length 4.5 - Alar extent 6.5.

It lays 4-5 pure white eggs, with a few reddish dots at the larger end.

## American Redstart -

Length 5.0 - 5.5 - Alar extent 6.0 - 6.5.

## Small Green-crested Flycatcher -

Length 5.5 - Alar extent 8.0.

Eggs 4-6, pure white.

## Yellow-bellied Flycatcher -

Length 5.0 - 5.2.

## Wood Pewee -

Length 6.0 - 6.5 - Alar extent 10.0 - 11.0.

## Perchers or Insectivores.

Eggs 3-4, cream-colored with irregular spots of brown towards the larger end.

## Phoebe Bird -

Length 7'- Alar extent 9'-9.5'.

Eggs 4-6 pure white with a few reddish spots at the larger end.

## King Bird -

Length 8'-9'- Alar extent 14'-15'.

4-6 yellowish eggs with a few spots of deep brown.

## Olive-sided Kingbird -

Length 6.5-7'- Alar extent 12.5'.

## Great-crested Kingbird -

Length 8.5' Alar extent 12.5-13'.

Eggs cream-colored, thickly streaked with purplish brown. The eggs of the Olive-sided Kingbird are yellowish cream-colored white, with spots of reddish brown.

## Yellow-throated Greenlet -

Length 5.5-6' Alar extent 9'-9.5'.

Eggs

## Solitary Greenlet

Length 5'-5.5' Alar extent 8'-8.5'

Eggs 4-6, light flesh-colored, spotted with brownish red at the larger end.

## White-eyed Greenlet

Length 5'-5.5' Alar extent 7'-7.3'

Lays 4-6 white eggs with a few dark spots at the

## Perchers or Insectivores

large end

## Warbling Greenlet

Length 5'- Alar extent 7.5'

Builds a pendant nest, which contains 4-6 white eggs, with confluent spots and thread like brown lines at the larger end.

## Red-eyed Greenlet

Length 5.5-6' Alar extent 9'-9.5'

Breeds throughout this State. Eggs white, sprinkled with brownish black points.

## Yellow-breasted Chat

Length 6'-7' Alar extent 8.5-9'

Eggs 4-6, light flesh color, spotted with reddish brown.

## Butcher Bird -

Length 10'-10.5' Alar extent 14'

Breeds in State. Eggs 4-6 pale ashy white, thickly marked at the larger end with reddish spots and streaks.

## Blue Jay

Length 11'-12' Alar spread 14'

4-5 dull olive eggs spotted with brown.

## Carolina Jay.

Length 10'-11' Alar extent 15'-15.5'.

Eggs are light grey, faintly streaked with brown.

## Magpie -

Length 8'-19' Alar spread 22'

Eggs pale blue or green, speckled with reddish.

## Perchers or Insectivores.

Common Crow

Length 16.0-17.5 Alar spread 35.0-37.0

Eggs brownish, tinged with green, with spots and dashes of dark brown

Raven

Length 25.0-26.0 Alar extent 50.0

Eggs greenish blue, blotched with light purple and yellowish brown at the larger end.

Irish Crow

Length 15.0-16.0 Alar extent 30.0-33.5

Common Crow-Blackbird

Length 12.0-13.0 Alar extent 18.0-19.0

Eggs 5-6 dull green, blotched with dark olive.

Aust. Crow-Blackbird

Length 9.0-9.5 Alar extent 14.0-14.5

Meadow Lark

Length 10.5-11.5 Alar extent 15.0-16.0

Lays 4-5 white eggs, with numerous reddish brown spots at the larger end.

Golden Oriole

Length 7.0-8.0 Alar extent 11.0-12.0

Its eggs are bluish white, with pale brown spots and lines

Orchard Oriole

Length 6.5-7.0 Alar extent 9.0

Eggs bluish white, sprinkled with brown.

## Perchers or Insectivores.

Red-Winged Oriole

Length 7.5-9.0 Alar extent 10.0-14.0

Eggs are light bluish with scattering brownish spots and streaks especially at the larger end.

Cow Bunting

Length 6.5-7.0 Alar extent 11.0-11.5

Eggs pale greenish, with olive brown points and confluent blotches, more numerous about the larger end

Boblink

Length 6.5-7.5 Alar extent 11.5

Eggs of a faint bluish white, irregularly spotted with blackish, and placed in a nest on the ground.

Blue Grosbeak

Length 6.5-7.5 Alar extent 10.0-11.0

Rose-breasted Grosbeak

Length 7.5-8.5 Alar extent 12.5-13.0

Snow-Bird

Length 5.5-6.5 Alar extent 8.5-9.0

Fox-colored Sparrow

Length 6.5-7.5 Alar extent 9.5-10.5

It builds its nest in the grass and its eggs are dull greenish, sprinkled with small irregular blotches of brown.



Perchers or Insectores.Song Sparrow.

Length 6.2-6.5 Alar extent 8.5

There seems to be two varieties

Wilson's figure has the eggs so thickly spotted with brown, that the white ground is scarcely apparent, while Audubon's eggs are smaller, ground color distinct light green with the spots most crowded at the larger end.

Bay-Winged Sparrow - Grass Finch

Length 5.5-6.0 Alar extent 10.0-10.2

Eggs flesh colored, with numerous reddish brown blotches, thickest at the larger end.

White-throated Sparrow.

Length 6.0-6.5 Alar extent 8.5-9.0

Eggs pale green, thickly spotted with reddish brown

White-crowned Sparrow.

Length 6.5-7.0 Alar extent 10.0-10.5

Black-throated Bunting.

Length 6.0-7.5 Alar extent 10-11

Nest on ground. Eggs 5 dusky white with brown spots and lines.

Yellow-winged Bunting

Length 4.5-5.0 Alar extent 7.5-8.0

Nest on ground, Eggs 4-5 white, sprinkled with brown spots.

Varied Bunting

Length 5.0

Perchers or Insectores.Field Bunting

Length 6.0

Nest on the ground or low shrubs. Eggs 5-6 white and of a fleshy tint, thickly sprinkled with reddish brown dots.

Chipe Bird

Length 5.0-5.5 Alar extent 7.5-8.0

Eggs 4.0-5.0 light green blue, spotted with brown, chiefly at the larger end.

Tree Bunting

Length 6.0-6.5 Alar extent 9.0-9.5

Eggs pale uniform deep blue.

Savannah Bunting.

Length 5.5-6.0 Alar extent 8.5-9.0

Nest on ground. Eggs 4-5 pale bluish, mottled with purplish brown.

Blue-striped Bunting

Length 5.0-5.5 Alar extent 8.4.

Seaside Finch.

Length 7.0-8.0 Alar extent 10.0-11.0

Nest on ground. Eggs 4-6 greyish white, freckled with brown.

Quail Head

Length 5.0-5.5 Alar extent 7.0-7.5

Nest on the ground. Eggs 4-5 dull white, sprinkled with brown (light) spots, at the larger end.

## Perchers or Insessores.\*

Swamp Finch

Length 5.5-6.0 Alar extent 7.5-8.0  
Eggs soiled white, speckled with reddish.

Yellow Bird

Length 4.5-5.0 Alar extent 8.0-8.3  
Nest in Tree. Eggs pure white, with reddish brown spots at the larger end.

Pine Finch

Length 4.5-5.0 Alar extent 8.0-8.5

Lesser Red Poll

Length 5.0-5.3 Alar extent 8.0-8.5.  
Eggs pale bluish green, with a few reddish spots at the larger end.

Mealy Red-Poll.

Length 5.3 Alar extent 9.0

Crested Purple Finch.

Length 5.5-6.0 Alar extent 9.0-9.3  
Eggs bright green

Cardinal Bird.

Length 8.0-8.5 Alar extent 11.0-11.5  
Eggs dusky white, spotted with olive brown

Chewink

Length 7.5-8.5 Alar extent 10.0-12.0  
Nest sunk in the ground. Eggs flesh-white spotted with brown.

## Perchers or Insessores

Indigo Bird

Length 5.5-6.0 Alar extent 7.0-8.0  
Eggs pure white.

Summer Red Bird

Length 7.0-7.5 Alar extent 11.5-12.0  
Eggs light blue

Scarlet Tanager

Length 6.5-7.0 Alar extent 10.5-11.5  
Eggs 3-5 bluish, speckled with brown.

Lapland Snow-Bird.

Length 6.5-7.0 Alar extent 12.0  
Eggs 5-7 pale yellowish, spotted with brown.

White Snow Bird.

Length 7.0-7.5 Alar 12.0-12.5  
Nest on the ground. Eggs 4-5 dull white, with numerous reddish brown spots, becoming confluent at the larger end.

Horned Lark

Length 7.5  
Nest on the ground, with olive white eggs sprinkled with minute darker spots

Pine Finch

Length 8.5 Alar extent 14.0  
The eggs are said to be pure white.

American Cross-bill

Length 6.5-7.0 Alar extent 9.5-10

## Scratchers or Razors

Eggs greenish white, thickly covered with brownish spots.

White-winged Crossbill

Length 6'0 - 6'5 Alar extent 10'5 - 11'0

Eggs white, spotted with yellowish.

Wild Pigeon

Length 16'0 - 18'0 Alar extent 23'0 - 25'0

Eggs two, pure white.

Carolina Turtle Dove.

Length 11'5 - 12'0 Alar extent 16'5 - 17'0

Two white eggs.

Wild Turkey

Length 42'0 - 50'0 Alar extent 60'0 - 70'0

Eggs 10'0 - 12'0

American Quail

Length 9'5 - 10'0

Eggs 8-18 white. Nest on ground and one brood in a season.

Ruffed Grouse

Length 18'0

Nest of dry leaves and is usually by the side of a decayed log or the root of a tree. Eggs 6-12 of a dull brownish color.

Prarie Hen.

Length 16'0 - 18'0

Nest on the ground. Eggs 12. Hatched 18 or 19 days.

## Waders or Gallinules

Spruce Grouse

Length 15'0 - 15'5

Eggs 12-14 fawn colored, with irregular blotches of brown.

American Ring Plover.

Length 7'0 - 8'0 Alar extent 14'0

It lays 4 dull yellowish eggs, with irregular spots and blotches of brown.

Piping Plover

Length 6'5 - 7'5

Breeds in this State. Eggs 4 cream-colored, sprinkled with brownish spots. It makes a mere excavation in the sand for a nest.

Wilson's Plover

Length 7'0 - 8'0

Eggs cream-color with dots and spots of light brown.

Killdeer; Killdeer Plover.

Length 10'0 - 11'5 Alar extent 20-21

Eggs 3-4 cream-colored, blotched with black.

Golden Plover

Length 10'5 - 11'0

The eggs are said to be pale olive, marked with blackish spots.

Whistling Plover

Length 10'5 - 12'0 Alar extent 23'0

It lays 4 eggs, spotted and blotched with light brown.



## Waders or Grallatores

Turnstone

Length 9.0-10.0

American Oyster Catcher

Length 17.0-19.0

Eggs cream-colored, spotted with brownish black.

American Crane

Length 54.0

The eggs are said to be green with numerous spots of brown confluent at the larger end.

Great Blue Heron

Length 48.0-54.0

Lays 2-3 bluish white, unspotted eggs.

Great Heron. Great White Heron

Length 40.0-48.0 - Alar extent 60.0

Eggs 2-3 pale blue.

White Crested Heron

Length 22-26 Alar extent 36-38

Eggs pale bluish green.

Blue Heron

Length 20-25

Eggs 3-4 pale bluish green.

Louisiana Heron.

Length 26-27

Green Heron

Length 17.0-18.0 Alar extent 25

## Waders or Grallatores

Small Bittern

Length 10.0-12.0

Eggs yellowish green, unspotted.

American Bittern

Length 26.0-28.0

Eggs 3-4 pale bluish

Black-Crowned Night Heron

Length 25-28

Breeds in State. Eggs 3-4 bluish green

Yellow-Crowned Night Heron

Length 20-23

Eggs bluish green.

White Ibis

Length 23-24

Eggs whitish, blotched with yellowish and spotted with reddish brown.

Glossy Ibis

Length 23-25

Long-billed Curlew

Length 25-27

Jack Curlew

Length 16-18

Eggs bluish grey with black spots

Small Esquimaux Curlew

Length 13.5-16.0

Eggs 3-4 greenish, blotched with brown.

## Waders or Gallatores

Long-legged Sandpiper

Length 8.5

Semipalmated Sandpiper

Eggs white, spotted with brown.

Length 5.5-6.5

Purple Sandpiper

Length 9.0

Eggs yellowish grey, with crowded brown spots at the larger end.

Buff-breasted Sandpipers

Length 8-9

Curlew Sandpiper

Length 7.5-8.5

Black-breasted Sandpiper

Length 7.5-8.5

Chin's Sandpiper

Length 6.5-7.5

Eggs brownish grey, spotted chestnut brown.

Red-breasted Sandpiper.

Length 9.5-10.5

Eggs 4. dun colored, spotted thickly with reddish

Wilson's Sandpiper

Length 4.5-5.5

Eggs 3-4 cream yellow, blotched and dotted with reddish brown.

## Waders or Gallatores.

Sanderling

Length 7.0

Its eggs are dusky, spotted with black.

Spotted Sand Lark

Length 7.9-8.3

Eggs pale yellowish, spotted with dark brown.

Grey Plover

Length 12-13

Eggs dull yellow, spotted with brownish

Yellow Legs

Length 9.5-10.5

Solitary Tatler

Length 7.5-8.5

The eggs are greenish yellow, with number spots more numerous in a circle about the larger end.

Varied Tatler

Length 13.5-14.5.

Willet; Stone Curlew

Length 14.0-15.5.

The eggs are olive, blotched with reddish brown particularly towards the larger end.

Marlin; Great Marbled Godwit.

Length 16.5-18.0

Ring-tailed Marlin

Length 15.5-16.5

Dowitcher

Length 9.5-10.5

## Waders or Gallatores

Common American Snipe

Length 10-12

Eggs yellowish, with spots and blotches which form a crowded circle about the larger end.

American Woodcock

Length 10.5-11.5

The eggs are usually four in number, dull yellowish, irregularly blotched with reddish brown.

Salt Water Meadow Hen

Length 13.5-15.0

It lays 8-15 eggs, dull whitish, sparingly sprinkled with reddish brown towards the larger end.

Fresh Water Meadow Hen

Length 17-19

Mr. Girsey describes the eggs as larger and darker than the preceding species.

Mad Hen; Virginian Rail

Length 9.5-10.5

Eggs dusky white, with brownish speck chiefly about the larger end.

Sora Rail

Length 8.5-9.5

New York Rail

Length 5-6

Eggs 10-16 pure white.

## Waders or Gallatores.

Florida Gallinule

Length 14

Lawyer

Eggs yellowish, blotched and lined with black

American Avocet

Eggs dull olive, with large blotches of dark brown.

Red Phalarope

Length 7.0-8.0

Hyperborean Lobefoot

Length 6.5-7.5

Wilson's; Holipode

Length 9.5-10.5

American Coot

Length 13.5-16.0

It lays 10-15 oval greenish yellow eggs, sprinkled with small dark brown spots.

Horned Grebe

Length 14.5-15.5

Eggs 3-4 white, spotted with brown.

Crested Grebe

Length 18-20

Eggs 4 of a uniform yellowish white.

Red-Necked Grebe

Length 17.0-18.0

Pipit; Pied Dabchick



## Swimmers, or Natatores.

Razor Bill

Length 16.0-17.0

Eggs 1-2 very large, white, blotched with brown, chiefly about the larger end.

Arctic Puffin

Length 12-13.5

One egg, white.

Sea Dove

Length 5.0-7.5

Foolish Guillemont

Length 16.0-18.0

Eggs 1-3 very large, varying in color from white to green and blue, blotched and splashed with dark brown.

Black Guillemont

Length 13.5-14.5

Eggs white, thickly spotted with dark brown, especially around the larger end.

Great Loon

Length 31.0-33.0

Eggs drab-colored.

Red-Throated Loon

Length 23.0-26.0

Eggs olive brown, spotted with darker brown.

Large Shearwater

Length 18.0-20.0

## Swimmers or Natatores.

Little Shearwater

Length 10.0-11.0

Wilson's Petrel

Length 6.5-7.5

Lays one or two white eggs.

Fork-tailed Petrel

Length 8.0-8.5

Cormorant

Length 37-39

The eggs vary from 3-4 of a pale uniform bluish green.

Double-crested Cormorant

Length 32.0-33.0

American Gannet

Length 36.0-37.0

Brown Pelican

Length 52.0-54.0

Black Skimmer

Length 16.0-20.0

Eggs 3-4 white, with brown blotches of two shades

Common Tern

Length 14.0-16.0

Its nest is a mere cavity, scooped in the ground, containing 3-5 greenish brown eggs, blotched with blackish brown.

Continued

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## Measurements of Birds &amp;c. 1873.

1873

Jan. 28 Blue Jay -

Length 12'1 Alar extent 17'0

Bill &amp; feet black. Eyes light blue

Jan 31. Black & white Tit -

Length 7'9 Alar extent 7'5.

Bill, feet and eyes black

Feb. 15 Partridge -

Length 17'5 Alar extent 22'1

Irides brown.

Feb 22 Blue Jay -

Length 11'0 Alar extent 15'1

March 3 Blue Jay -

Length 11'3 Alar extent 17'0

March 3 Blue Jay -

Length 11'3 Alar extent 16'4

March 15 Robin -

Length 9'2 Alar extent 16'1

March 19 Passenger Pigeon - (Female)

Length 16'3 Alar extent 23'7

Bill bluish black, Legs &amp; feet red. Irides bright red

Tail composed of 12 feathers.

March 15 Song Sparrow -

Length 6'6. Alar extent 8'7

March 17. Snow Bird -

Length 6'4 Alar extent 8'9

Bill &amp; Feet flesh colored. Eyes black

## Measurements of Birds &amp;c. 1873.

March 17 Song Sparrow -

Length 6'6 Alar extent 8'8.

March 19 Blue Bird - (Male)

Length 7'2 Alar extent 12'1

March 19 Blue Bird - (Female)

Length 7'1 Alar extent 12'0

Eyes black.

March 24 Hooded Merganser - Buff-breasted

Bill and feet red. Bill long and narrow. Beneath white above slate blue. Wings marked with white. Largely crested

March 23 White-breasted Nuthatch - (Male)

Length 6'0 Alar extent 10'7

Eyes black. Bill & feet black. Upper mandible the longest. General color above bluish. Inside of the wings next to the shoulders black bordered bluish with white. Top of the head bluish. Back of the head, spreading over the shoulders black. Sides of the head, throat and all beneath white except a reddish tinge on the sides and under the tail. Wings bluish marked with dusky and slightly with white. Bill longer than the head. Head plumbeous. Tail .3 inches beyond wings. Two middle tail feathers blue; the next on either side black. The next black tipped with white. The outer three black at base, white in the middle tipped with black.

## Measurements of Birds &amp;c. - 1873.

March 28 White-bellied Nuthatch - (*Sitta carolinensis*) Gm.

Length 6'7 Alar extent 11'8

Plumage like the preceding.

March 29 White-bellied Nuthatch - (*Sitta carolinensis*) Gm.

Length 5'6 Alar extent 10'3.

Like the two preceding except that the crown is black and the entire plumage is more lustrous and the bird is smaller.

March 31 Rusty Crown Blackbird - (*Agelaius ferrugineus*) Gm.

Length 9'9 Alar extent 15'2

Bill, feet, legs and entire plumage black glossy. Eyes with a yellow iris mandibles subequal, inclined downward. Feet rather robust.

March 31 Rusty Crown Blackbird - (Male *Agelaius ferrugineus*) Gm.

Length 9'9 Alar extent 15'0

Plumage not differing from the preceding except in having a few rusty marks on the back.

March 31 American Shrike - (*Ledya borealis*) Baird.

Length 9'5. Alar extent 14'0

Back light greyish, shoulders nearly white. Head of the same color with a black eye stripe reaching from the nostrils through the eye nearly to the shoulders. Bill bluish with a distinct tooth in the upper mandible. Legs, feet, and eyes black. Wings black, with a band of white about half way from the end. Shoulders reddish grey, bordered inside

## Measurements of Birds &amp;c. - 1873.

with grey. Belly white. Breast white slightly marked with dark. Nostrils covered with feathers. Head large. Tail with 4 middle feathers black, the rest tipped with white.

April 3 Winter Gull (Male *Larus argentatus*) Brunn.

Length 24'6 Alar extent 39'5.

Irides yellow. All beneath pure white with the exception of the ends of the wings and tail which are dusky. Feet white. Nails black. Length from corner of the mouth to end of the bill 3'2. Bill yellowish white with bluish black on the sides near the tip. Head pure white. Neck above white very slightly spotted with dusky. The whole of the middle part of the back light bluish. Wings above bluish tipped with white and black. Between the 2nd. & 3rd. wing joints it is marked like the back of the neck, bordered with white on the opposite side. The part of the back ~~near~~ the tail and tail white except at the end where it is irregularly spotted with black. Tail slightly rounded composed of 12 feathers. The nostrils are about the middle of the beak, wedge shaped, with the thick end next the end of the beak. Eyes bordered with dusky. Feet webbed. Knee joint very prominent. Bill thick and narrow. Carcas about as large as a crow's. rather longer.



## Measurements of Birds &amp;c. 1873.

April 2 Rusty Crown Blackbird - (*Scelopagus ferrugineus*) Sw.

Length 9.6 Alar extent 15.2

Marked above with rusty and below with yellowish

white. 4 Black Duck - (*Anas obscura*) Gm.

Length 34.7 Alar extent 36.2.

Plumage dusky. Head, neck and all beneath white

Under surface of wings white. Feet muddy reddish

Bill bluish. Irides dark hazel. Wing coverts & marked with green.

April 12 Phoebe - (*Sayornis fuscus*) Baird.

Length 6.5 Alar extent 10.4.

Eyes black, bill and feet black. Color above dusky  
olive, darker ~~on~~ on the head and tail. Throat  
yellowish. Belly and breast yellowish white.  
Bill toothed.

April 12. Robin - (*Turdus migratorius*) Linn.

Length 10.4 Alar extent 16.6

Eyes black. Feet brownish black. Bill yellow on the  
lower mandible. Barren

May 17 Red-throated Hummingbird - (*Prochilus rubristriatus*) Linn.

Length 3.5 - Alar extent 4.0

April 14 Crested Purple Finch - (*Carpodacus purpureus*) Gray

Length 6.4 Alar extent 10.6

Bill very short and robust. Tail dusky. Feet  
brown. Tail forked. Belly white. Throat and breast  
light pink. Head darker and crested. Remainder  
of plumage brownish pink.

## Measurements of Birds &amp;c. 1873.

Blue Bird (Male) - (*Sialia sialis*) Baird

April 14 - Length 6.7 - Alar extent 12.0

Eyes black. Color above blue. Throat & breast  
reddish. Belly white. Bill & feet black

Hermit Thrush - (*Turdus pallasi*) Cabanis.

Apr. 16 - Length 7.4 - Alar extent 12.0

Bill flesh color. Eyes black. Feet flesh color.  
Color above olive green. Tail reddish. Belly  
white. Sides of the breast light olive. Throat  
marked with arrow headed spots.

Sparrow, bay-winged. Grass Finch (*Procoptes graminivorus*) Baird.

Apr. 19 - Length 6.0 - Alar extent 10.2

Upper mandible black. Lower mandible &  
feet flesh color. Colors like & sup; but  
more finely marked. Shoulders  
bay. Eyes black. Tail slightly forked.

Buffle-head Duck - (*Bucephala albeola*) Baird.

Apr. 23 - Length 12.6 - Alar extent 21.4

Bill above black; bluish near tip and lower  
mandible. Feet & legs bluish flesh color

Webbs black. Eyes & plumage above black  
Wings marked with white on four feathers.  
Head with white cheek marks.

Throat lighter. Upper parts of breast  
greyish. Around anus brownish grey  
Remainder of plumage white. Tail  
much rounded.

## Measurements of Birds &amp;c

1873.

Thicket (Male) (Colaptes auratus.) Linn.

Apr 24 Length 12.4 - Alar extent 19.5

Eyes black with a dark ~~red~~ iris. Bill long: curved down. Nostrils nearly concealed by feathers. Shafts of feathers elongated. & rather the web tapering to a point. Tail of 12 feathers. Base of shafts (about half way) yellow. Remainder to point black. Feathers above black with the two middle ones very slightly tipped edged with white: Beneath yellow tipped with black. Upper & under tail coverts black & white. Rump white. Beneath white sprinkled irregularly with round black spots. Breast with crescent of black. Neck & sides of head chocolate except 2 round black marks on the sides of the chin. (wanting in female) Ashild shaped spot of bright red on the back of the head; Remainder of head ash. Wings beneath yellow. Wings and back above brown & black. Young very long & round. Legs greenish blue. Bill black.

## Measurements of Birds &amp;c

1873.

Cedar Bird (Male) (Amphisp. cedrorum.) Vieill.

Apr 28 Length 7.6 - Alar extent 11.5

Eyes, bill & feet black. A black streak extending through the eyes, and around the bill. Head rather flat and largely crested. Beneath yellow. Chin black, blending into ashy brown. Vent white. Color above and on the breast brownish grey. Tail broadly tipped with yellow. Wings without waxen appendages. Black head-stripe bordered beneath & very slightly above with white.

Purple Grackle (Female) (Tuscalus versicolor.) Vieill.

Apr 29 Length 11.2 - Alar extent 16.6

Eyes yellow. Bill & feet black. Bill robust. Color deep black, with metallic reflection. Tail much rounded.

Myrtle Bird - Yellow-rumped Warbler (Dendroica coronata.) Gray

May 1 Length 6.0 - Alar extent 9.0

Crown, rump and sides of breast yellow. Eyes, feet & bill black. Throat white. Sides of head & tail above black. Breast black & white. Back grey & black. Tail even or slightly forked.

Snow Bird - (Junco hyemalis) Sclater.

May 1 - Length 6.2 - Alar extent 9.7

Eyes black. Bill flesh color: legs brownish

## Measurements of Birds &amp;c 1873.

black. Color blackish above, tail darker  
Throat & sides of the breast like the back.  
Belly white.

Crested Purple Finch (Male) (*Carpodacus purpureus*) Gray

May 3 - Length 6.3 - Alar extent 10.4

Eyes black. Feet brownish. Lower mandible  
flesh color. Upper bluish brown. Head  
dark red. Back the same but more  
distinctly marked with brown. Wings  
purplish brown. Breast & sides dark  
purplish crimson. Belly white. Tail  
forked. Throat very dark like breast  
Bill & feet robust.

Crested Purple Finch (Female) (*Carpodacus purpureus*) Gray

May 3 Length 6.1 - Alar extent 10.4

Eyes, feet & bill like female. Head  
without crest. Chin white. Breast  
& sides sparsely marked with long  
arrow-headed dark brown spots. Lower  
wing coverts slightly edged with white.  
Head & back marked with black & two  
shades of brown. Head behind eyes  
uniform brown.

White-crowned Sparrow (Male) (*Zonotrichia leucophrys*) <sup>at Vincennes</sup> Fox

May 5 Length 6.5 - Alar extent 9.7

Eyes black with brown iris. Bill light

## Measurements of Birds &amp;c 1873

bluish brown. Feet flesh color. Head with  
a narrow white stripe extending from the  
base of lower mandible to the lower part  
of the neck and from each side of the up-  
per mandible a narrow line of yellow  
as far as over the eyes, and continuing  
in white to even with the middle one.  
Throat white. Breast greyish. Belly white.  
Rump greyish black and wings black  
marked with brown of more than one  
shade. Tail nearly even. 1.7 beyond wing

Rusty-crow Blackbird (Male) (*Colaptes ferrugineus*) Fox

May 5 Length 9.7. Alar extent 15.0

Iris bright yellow. Entire plumage  
glossy black. Bill & feet black.  
The left to of the right foot of this  
bird has at some time been broken  
and turned over backward leaving  
the claw sticking up and a large  
bunch was formed on the top of  
the toe on which it walked. The  
leg had been broken just above the  
foot which also had healed. Tail  
2.0 inches beyond wings.

Chewink (Male) (*Pipilo erythrophthalmus*) Fox

May 9 Length 8.0 Alar extent 11.0



## Measurements of Birds &amp;c 1873.

Irides dark red. Bill robust (black) Feet flesh color. Head & neck black. Tail coverts light reddish yellow. Tail black - 3 outer feathers tipped with white. Belly white. Wings black marked with white. Back black very faintly marked with reddish.

Tail rounded 20.7 inches beyond wings.  
Yellow-bellied Fly-catcher (*Empidonax flaviventris*) Baird.

May 9 Length 5.0

Irides grey. Bill & feet black. Throat white. Sides greenish yellow. Under surface of wings yellow. Belly white. Back olive green. Head dark greyish with a white eye-stripe. Wings black marked with olive green & white.

American Redstart - (Male) (*Setophaga ruticilla*). Ginn.

May 16 Length 5.2. Alar extent 8.3.

Eyes, bill & feet black. Head black. Throat black. Belly white tinged slightly with yellow. Tail & wings orange, marked with black. Back black. Sides of belly and under surface of wings ~~the~~ orange. Tail slightly rounded 1.1 in. beyond wings.

Wood Pewee. - (*Contopus virens*) (Sabine's.)

May 12 Length 5.6 Alar extent 8.5

Irides grey. Belly & Throat white. Breast and

## Measurements &amp;c of Birds 1873.

sides greyish olive. Upper mandible dusky. Lower mandible lighter. Feet black. Color above brownish olive, head & wings darker. Wings marked with white. Tail forked 1.5 beyond wings.

Baltimore Oriole - (Male)

May 12 Length 7.7 Alar extent 11.4

Irides black. Feet and bill bluish. Bill acutely pointed. Head, throat and back black. Wings black marked with white. Tail black and orange. Shoulders, rump and breast orange. Tail slightly round 1.7 in. beyond wings.

Cedar Bird -

May 12 Length 6.8 Alar extent 11.5.

Eyes black. A line from the nostrils through the eye black. Tail without any indication of the yellow band at the extremity, also without waxy appendages on wings. No black on the throat. Black stripe above not extending as far as usual. Tail rounded extends 1.1 in. beyond wings.

Varied creeping Warbler -

May 12 Length 5.2 Alar extent 7.7.

Eyes, bill & feet flesh-color. Entire plumage

## Measurements of Birds &amp;c

1873.

black and white. A broad white band beneath white. Rump black. Tail forked .9 in. beyond wings.

Baltimore Oriole - (Male)

May 13. Length 7.7. Alar extent 11.9.

" " " 7.6 " " 11.6.

" " " 7.5 " " 11.3.

Baltimore Oriole - (Female)

May 13. Length 7.1. Alar extent 11.0.

Colors less brilliant than male. Head & neck yellowish olive marked with black. Legs & feet lighter than male.

Rose-breasted Grosbeak. (Male)

May 13. Length 8.0 - Alar extent 12.6

Eyes with brown iris. Bill very robust, flesh color. Legs & feet bluish. Head and upper part of back. Lower part of back and rump white. Tail rounded. 4 outer feathers marked with white. Wings black marked with white. Throat black. Breast rich carmine. Under surface of wings a lighter shade of the same color. Feathers of thighs marked with black. Breast marked with a few arrow-headed black spots. Tail 2.0 inches beyond wings.

## Measurements of Birds &amp;c

1873.

Indigo Bird. (Male)

May 13. Length 5.7 Alar extent 8.5

Irides brown. Bill bluish black.

Wings and tail marked with black or dusky. Under tail coverts marked with white. Feet black. Tail nearly even 1.3 in. beyond wings.

Ruby-throated Hummingbird. (Male)

May 15. Length 3.5 Alar extent 4.0

Brown Thrush.

May 17 Length 10.9. Alar extent 12.5.

Irides yellow. Feet flesh-color. Bill dusky. Color above reddish brown. Wing coverts marked with white. Beneath white marked with dark brown arrow-headed spots. Tail rounded 3.6 in. beyond wings.

Orchard Oriole. (Old Male)

May 19. Length 7.0. Alar extent 9.6.

Eyes black. Bill black, lower mandible lighter at base. Bill slightly curved. Beneath, shoulders, and upper part of back dark reddish or bay. Residuum of plumage black. Tail rounded extends 1.9 in. beyond wings.

## Measurements &amp;c of Birds

1873

Cal Bird (Female)

May 17. Length 9.0 Alar extent 12.0

Eyes, and bill black. Feet dark brown.

Under tail coverts dark reddish brown.

Crown, tail &amp; wings black. Remainder of plumage dark greyish.

Golden Oriole (Female)

May 19. Length 7.7. Alar extent 11.2.

Bill bluish. Eyes and feet black. Throat, head and upper part of back. Breast darker. Lower part of back orange, tinged with olive green. Shoulders orange. The rest of wing marked with black &amp; white. Tail with 2 central feathers black. The others light olive green tinged slightly with orange. Tail 1.9 in. beyond wings.

Bay-breasted Warbler.

May 19. Length 5.7. Alar extent 9.0

Irides brown. Bill &amp; feet dusky. Belly white. Throat &amp; sides reddish. Sides of the head black. Crown chestnut. Upper part of back mixed with grey and light yellowish. Lower part of back grey slightly marked with black

## Measurements of Birds

1873

Wings black, marked with white and grey. Tail black with 2 outer feathers marked with white. Tail forked 1.0 inch beyond wings.

Golden Oriole (Male)

May 19. Length 7.6 Alar extent 11.0. Tail 1.0 beyond wings. Eyes black. Rump, shoulders, breast and part of tail rich orange. Wings slightly marked with white. Bill and feet bluish. Remainder of plumage black. Tail nearly even

Chimney Swallow

May 20 Length 5.6 Alar extent 12.0. Wings 1.2 beyond tail. Eyes and bill black. Tarsi and feet bluish flesh color. Upper joint of leg bare of feathers. Shafts of tail feathers extending beyond the web and acutely pointed. Throat light greyish. Remainder of plumage dusky.

Scarlet Tanager (Male. May 22)

Length 7.2. Alar extent 11.8. Irides blue. Bill flesh color. Tarsi &amp; feet bluish-black. Tail forked 1.4 beyond wings. Wings and tail black. Under surface of wings white. The rest of the plumage scarlet.

American Redstart (Male)

May 22 Length 5.2 Alar extent 8.2



## Measurements Ec. of Birds.

1873

Eyes and bill black. Feet brown. Tail rounded  $1\frac{1}{2}$  beyond wings. Wings and tail black, mixed with orange. Belly white, tinged with orange. Sides orange. Remainder of plumage black.

Scarlet Tanager (Male - May 22)

Length 7.5 Alar extent 12.0

Marsh Wren (Male)

May 29 Length 5.1 Alar extent 6.2

Iris brown. Feet flesh color. Base of lower mandible flesh-color tip black. Upper mandible black. Sides reddish. Belly white. Crown nearly black, with a brownish band in the centre. Middle of back black, with a few of the feathers tipped with white. Wings brown, slightly marked with black. Tail much rounded: brown, barred with black,  $1\frac{1}{2}$  beyond wings. Remainder of plumage brown. Bill long and decurved. Tarsi & feet very robust.

King Bird (Male)

May 24. Length 8.1 Alar extent 14.3

Irides grey. Bill and Feet black. Tail slightly rounded, black, tipped with white. Breast greyish. Throat and bell white. Head, wings and back blackish.

## Measurements Ec. of Birds.

1873

Head with hidden orange crest. Bill slightly toothed.

Red-eyed Greenlet

June 2 Length 6.5 Alar extent 10.0

Irides red. Color above greenish olive. Crown greyish, slightly bordered with black. A white eye stripe, extending from the base of lower mandible to the back of the head. Beneath white. Bill & feet bluish black. Lower mandible white at base. Tail  $1\frac{1}{2}$  beyond wings.

Green Heron (Young)

June 21 Length 5.5 Alar extent 5.3

Three days old, covered with dark greyish down, lighter beneath. Iris greenish yellow.

King Bird

June 28. Length 8.3 Alar extent 14.5

Owby Woodpecker (Male)

June 30 Length 6.6 Alar extent 11.7

Wings black, marked with white spots. Nostrils concealed by white bristles. Eye stripe, sides of head, and neck, white. Tail of 10 feathers, the two middle ones black, the next, tipped on the outer web with white, and the outer three white, ~~is~~ barred with two narrow black bars. Feathers sharply pointed. A

## Description and Measurements. 1873

broad white band down the back. Remainder of plumage above black. Beneath yellowish white. Sides faintly marked with arrow-headed. Irides brownish. Bill black. Feet greenish. Tail 1'4 beyond wings. Back of head bright red.

Downy Woodpecker

June 30 Female Length 6'5-11'5

Tail with 4 middle feathers black, and the others marked with white. Breast pure white. Irides red. Head without red.

Field Bunting (Female)

July 6 Length 5'9. Alar extent 7'5.

Bill and feet flesh-color, bill a little browner. Irides black. Head lighter than Chipping Bird, in other respects the plumage much resembles it.

Indigo Bird (Male)

July 6. Bill, feet and eyes black. End of wings and tail black tinged with indigo blue. Remainder of plumage dark greenish blue.

Green Heron. (Female)

June 10 Length 17'3 Alar extent 26.

Feet greenish yellow. Irides yellow.

## Description and Measurements. 1873

Woodcock (Female)

July 11 Length 10'5-Alar extent 19'0 Eyes black.

Hairy Woodpecker (Female)

July 11 8'6 Alar extent 15'6

Scarlet Tanager

July 14 Length 7'4-Alar extent 12'0

Cedar Bird

July 14 Length 7'2. Alar extent 11'8.

Great Crested Flycatcher (Male)

July 15 Length 9'0 Alar extent 13'5

Red Bird

July 25 Length 7'0 Alar extent 11'0

Red Bird

Aug 18 Length 7'5 Alar extent 11'8

Eyes black. Tail feathers pointed. Bill and legs dusky. Back yellowish, marked with black, inclining to yellow on the rump. Two blackish lines on the head. Beneath yellowish, marked with black, on the sides. Breast with a more brownish tinge.

Solitary Flycatcher

Aug 18 Length 7'7 Alar extent 13'0

Eyes black. Bill dusky; feet lighter.

Blue Jay

Sep 20 Length 11'5 Alar extent 16'6

## Description and Measurements. 1873

Sep 22 Length 5.3 Alar extent 8.0 Tail 2.0

Golden-winged Woodpecker (Female)

Sep 24. Length 12.1 Alar extent 17.1 Tail 4.5

ma. crest. Eyes apparently black.

Chie - Red King Bird (Male)

Sep 24 Length 7.5 Alar extent 13.0 Tail 2.7

Blue Jay (Male)

Sep 27 Length 11.5 Alar extent 17.2 Tail 5.5

Irides bluish black. Bill and feet black.

Blue Jay

Sep 27 Length 11.9 Alar extent 16.4 Tail 5.6

Scarlet Tanager (Female)

Sep 27 Length 7.0 Alar extent 11.2 Tail 2.7

Eyes black

Osprey; Fish Hawk (Male)

Oct 1. Length 23.0 Alar extent 64.8 Tail 8.5

Eyes orange yellow, Tarsi and toes greenish white. Bill bluish. Claws dark bluish black Tail very slightly rounded. Weight 5 1/2 lb.

Red-tailed Hawk

Oct 11 Length 21 Alar extent 48.5 Tail 8.5

Tarsi, toes and cere straw color. Eyes dark brown.

Osprey; Fish Hawk (Female)

Nov 25 Length 23.4 Alar extent 65.00

Eyes dark brown.

## Description and Measurements. 1874

~~Broad Bill; Raft Duck~~ Golden-eyed Duck

Dec 5 Length 19 7/8 Alar extent 30 7/8

Creek Broad-Bill; Little Black-Head.

Dec 6 Length 16.1 Alar extent 28.3

Bastard Broadbill; Ring-necked Duck (Male)

Dec 16 Length 17 1/2 Alar extent 28

Omitted

Bald Eagle

Nov 4 Length 36.9 Alar extent 80.0 Tail 12.9

Eyes dark brown. Bill bluish. Tarsi and toes yellow. Claws bluish

Red Owl; Mottled Owl

Nov 19 Length 9.4 Alar extent 22.0. Irides yellow

## 1874.

Tree Sparrow

Jan 28 Length 6.0 Alar extent 8.6 Tail 2.9 Wing 3.0

Irides dark brown. Lower mandible yellow; upper black. Feet dusky.

Blue Bird

Jan 28 Length 6.6 Alar extent 12.0 Tail 2.3 Wing 3.5

Irides dark brown, nearly black. Bill & feet black

Black-cap Titmouse

Jan 28 Length 5.3 Alar extent 7.5 Tail 2.3 Wing 2.5

Eyes, bill and feet black. Fourth quill longest.



The Nos given in parentheses correspond to Conner List which saves the trouble of scientific name.

|  |                           | Length  | Extent  | Tail     | Wing |
|--|---------------------------|---------|---------|----------|------|
| Tree Sparrow (177) ♂   | Feb 26/74 -               | 6 1/8   | 9 3/8   | 2 3/8    |      |
| Tree Sparrow (177) ♀   | " 26/74 -                 | 6 1/16  | 9 3/8   | 2 1/8    |      |
| Bill & Feet light brown; lower mandible yellow<br>Irides brown |                           |         |         |          |      |
| Song Sparrow (169) ♂   | Feb 26/74                 | 5 7/8   | 8       | 2 1/8    |      |
| Bill and Feet brownish; lower mandible yellow<br>Irides brown. |                           |         |         |          |      |
| Snow Bird (174) ♂  | March 2/74                | 6 3/8   | 9 1/8   | 2 3/8    |      |
| Bill flesh-color; Feet light brown; eyes black.                |                           |         |         |          |      |
| Blue Bird (16) ♂   | Mar. 2/74                 | 7       | 12 3/8  | 3        |      |
| Bill & Feet black; Irides brown.                               |                           |         |         |          |      |
| Eng. Sparrow (187) ♂   | Mar 5                     | 6 2/8   | 9 6/8   | 2 3/16   |      |
| Bill robust; black; Irides & feet brown; Tail nearly even.     |                           |         |         |          |      |
| Wild Pigeon (370) ♀  | Mar 5                     | 16      | 23 1/4  | 7 1/8    |      |
| Irides bright red; Bill black; Feet red.                       |                           |         |         |          |      |
| Blue Bird (16) ♀   | Mar 5                     | 6 5/8   | 11 3/8  | 2 1/4    |      |
| Blue Bird (16) ♂   | " 5                       | 6 4/8   | 12 1/8  | 2 1/2    |      |
| Fox-colored Sparrow (188) ♂                                    | Mar 11                    | 7 4/8   | 11 3/8  | 2 7/8    |      |
| Irides & Bill above brown; lower mandible & Feet flesh-color.  |                           |         |         |          |      |
| Fox-colored Sparrow (188) ♀                                    |                           | 7 1/8   | 10 1/8  | 2 9/16   |      |
| Blue Bird (16) ♂   | Mar 11/74 - Gunney yellow | 6 9/16  | 12 4/16 | 2 1/16   |      |
| " " " " " "  | 12                        | 6 8/16  | 12 9/16 | 2 5/16   |      |
| " " " " " "  | "                         | 6 10/16 | 12 7/16 | 2 1/16   |      |
| " " " " " "  | "                         | 6 9/16  | 12 5/16 | 2 1/16   |      |
| " " " " " "  | "                         | 6 1/16  | 12 7/16 | 2 1/16   |      |
| Robin (1)  | "                         | 10      | 15 1/16 | 4 5 7/16 |      |
| Tip of lower mandible black; Rem. of bill & gums yellow        |                           |         |         |          |      |

## Measurements 1874 - Mar 21

|   |          | Length    | Extent    | Tail      | Wing   |
|---|----------|-----------|-----------|-----------|--------|
| Irides, <del>Feet</del> & feet brown  |          |           |           |           |        |
| Snow Bird (174) ♀   | Mar. 12  | 6         | 10 13/16  | 2 1/16    |        |
| Bill flesh-color; Legs & Feet brownish-flesh-color<br>Eyes black.   |          |           |           |           |        |
| Fox-colored Sparrow (188) ♀   | Mar. 12  | 7 1/16    | 11        | 2 1/16    |        |
| Fox-colored Sparrow (188) ♂   | "        | 12.7 1/16 | 11 3/16   | 2 3/16    |        |
| Bill, Legs & Feet fleshy brown. Irides brown<br>Spot on breast more prominent than in specimen<br>of my females I have examined.  |          |           |           |           |        |
| Song Sparrow (169) ♂  | Mar 13   | 6 1/16    | 8 7/16    | 2 9/16    |        |
| Irides brown; Bill & Feet dusky   |          |           |           |           |        |
| Great-Horned Owl (317) ♂  | March 14 | 21        | 15 2 3/16 | 8 14 4/16 |        |
| Irides bright yellow; Bill & claws bluish-black<br>Lower mandible tipped with horn-color<br>Weight 2 1/4 lb. Feet feathered above also legs<br>Soles below whitish-green. |          |           |           |           |        |
| Robin (1) ♀   | Mar 20   | 10 1/16   | 16 4/16   | 3 1/16    | 5 4/16 |
| Eyes & Feet brown; Bill yellow tipped with black.   |          |           |           |           |        |
| Blue Bird (16) ♂  | Mar 19   | 12 1/16   | 12 1/16   | 2 7/16    |        |
| Snow Bird (174) ♂   | Mar 21   | 6 2/16    | 9 7/16    | 2 8/16    |        |
| Bill flesh-color; Eyes black; Legs & Feet brown.  |          |           |           |           |        |
| Cedar Bird (119) ♀  | Mar 20   | 6 1/16    | 11 8/16   | 2 4/16    |        |
| Bill & Feet black; Eyes brown; Tail without terminal band.  |          |           |           |           |        |
| Yellow Bird (149) ♂   | Mar 20   | 5 9/16    | 9 1/16    | 1 1/16    |        |
| Bill brownish flesh-color; Feet brown   |          |           |           |           |        |
| Downy Woodpecker (299) ♀  | Mar 21   | 6 1/16    | 12        | 2 1/16    |        |
| Bill black; Feet greenish; Irides reddish brown.  |          |           |           |           |        |

## Measurements - April 27 - 1874

|  | Length  | Extent  | Wing   | Tail    |
|--|---------|---------|--------|---------|
| <u>Cholbe</u> (252) Mar 21   | 7       | 11 7/16 | 3 5/16 | 3       |
| Irides grey; bill and feet black   |         |         |        |         |
| <u>Snow Bird</u> (174) ♂ Mar 21  | 6 1/16  | 9 4/16  | 3      | 2 10/16 |
| <u>Snow Bird</u> (174) ♀ " 21  | 5 9/16  | 9       | 2 7/16 | 2 5/16  |
| <u>Hairy Woodpecker</u> (298) ♂ Mar 25   | 9       | 15 9/16 | 4 1/16 | 3 2/16  |
| Bill greenish black; feet greenish black with broad white places between the scales          |         |         |        |         |
| <u>Robin</u> (1) ♂ Mar 25  | 9 7/16  | 15 9/16 | 5 1/16 | 4 7/16  |
| <u>Robin</u> (1) ♀ " 25  | 9 7/16  | 16 1/16 | 5 1/16 | 4 8/16  |
| Irides brown; bill yellow tipped black; feet brownish black.                                 |         |         |        |         |
| <u>Golden-crowned Kinglet</u> (22) ♀ Apr 1   | 4       | 6 14/16 | 2 4/16 | 1 7/16  |
| Irides brown   |         |         |        |         |
| <u>Golden-crested Kinglet</u> (22) ♂ Apr 7   | 4 7/16  | 7 4/16  | 2 8/16 | 1 2/16  |
| <u>Ruby-crowned Kinglet</u> (21) ♂ " 7   | 4 8/16  | 6 14/16 | 2 5/16 | 1 3/16  |
| Irides brown   |         |         |        |         |
| <u>Golden-crowned Kinglet</u> (22) ♂ Apr 7   | 4 7/16  | 7 4/16  | 2 7/16 | 1 12/16 |
| <u>Golden-crowned Kinglet</u> (22) ♀ " 7   | 4       | 6 12/16 | 2 5/16 | 1 12/16 |
| <u>Cholbe</u> (252) April 3  | 7       | 11 2/16 | 3 1/16 | 3       |
| Iris brown   |         |         |        |         |
| <u>Winter Wren</u> (50) ♀ Apr. 27  | 4       | 5 13/16 | 1 7/16 | 1 1/16  |
| Irides very light brown. Upper mandible brownish black. Lower mandible and feet flesh-color. |         |         |        |         |
| <u>Kingfisher</u> (286) April 27   | 13 7/16 | 29 4/16 | 6 7/16 | 3 10/16 |
| Upper mandible above   |         |         |        |         |
| Lower " below  |         |         |        |         |
| Bill bluish black; lighter & with a bluish tint at tip                                       |         |         |        |         |
| Feet brownish flesh-color at base  |         |         |        |         |
| Nails blue-black   |         |         |        |         |

## Measurements for 1874

|   | Length  | Extent             | Wing          | Tail         |
|---|---------|--------------------|---------------|--------------|
| <u>Tree Sparrow</u> (177) ♂ April 29  | 6 2/16  | 9 5/16             | 2 7/16        | 2 1/16       |
| <u>Field Bunting</u> (179) April 29   | 5 7/16  | 8 4/16             | 2 8/16        | 2 7/16       |
| Irides brown; bill and feet flesh-color.  |         |                    |               |              |
| <u>Chip Bird</u> (178) April 29   | 5 7/16  | 8 4/16             | 2 10/16       | 2 7/16       |
| Irides brown, bill black, feet & legs flesh-color   |         |                    |               |              |
| <u>Chip Bird</u> (178) April 29   | 5 2/16  | 8 13/16            | 2 7/16        | 2 4/16       |
| <u>Chip Bird</u> (178) " "  | 5 7/16  | 9                  | 2 10/16       | 2 5/16       |
| <u>Chip Bird</u> (178) " "  | 5 7/16  | 9 1/16             | 2 12/16       | 2 9/16       |
| <u>Red-winged Blackbird</u> (213) ♂ April 29  | 9 1/16  | 15                 | 4 7/16        | 3 9/16       |
| Irides dark brown. Bill & feet black  |         |                    |               |              |
| <u>Passenger Pigeon</u> (") ♂ April 30  | 16 7/16 | 24                 | 8 2/16        | 8 1/16       |
| Irides & feet red; Bill black.  |         |                    |               |              |
| <u>Passenger Pigeon</u> (") ♀   | 15 8/16 | 23 1/16            | 8 1/16        | 7 9/16       |
| <u>Broad-winged Hawk</u> (355) ♀ May 4  | 14 1/16 | 37 9/16            | 12            | 7            |
| Irides light brown, narrower and lighter above. Legs & feet yellow; Bill bluish black, lighter at base. Two of the eggs were somewhat developed showing that that was the place to be deposited. The stomach contained a quantity of hair and the entire legs of a large Rat. |         |                    |               |              |
| <u>Great Hawk; Osprey</u> (360) May 4   | 25      | <del>37 1/16</del> | <del>12</del> | <del>7</del> |
| Irides yellow; Beak & Talons bluish black. Legs greenish  |         |                    |               |              |
| <u>Long-billed Owl</u> (441) ♂ Not positively ascertained on account of putridity. Aug 24   | 24      | 40                 | 11 3/8        |              |
| Length to end of toes 28 1/2. Legs light green-brown. Bill black, flesh pink at base of lower mandible.   |         |                    |               |              |



## Measurements - April 16 - 1874.

|   | Length  | Extent  | Wing    | Tail   |
|---|---------|---------|---------|--------|
| <u>Orange Hawk</u> (344) ♂ Sep 4/74   | 11 1/2  |         |         |        |
| Iris, legs & feet yellow; Irides yellow   |         |         |         |        |
| <u>Oven Bird</u> (92) ♂ Sep 4/74  | 6 5/16  | 9 7/16  | 2 7/16  | 1 7/16 |
| Irides brown; legs, feet & lower mandible flesh-color   |         |         |         |        |
| Upper mandible brownish black.  |         |         |         |        |
| <u>Yellow Bird</u> (149) ♂ Sep 3  | 5       | 8 7/16  | 2 7/16  | 1 7/16 |
| <u>Red-bellied Nuthatch</u> (39) ♂ Sep 4  | 4 7/16  | 8 7/16  | 2 7/16  | 1 6/16 |
| Bill from corner of mouth 1 7/16  |         |         |         |        |
| Irides brown; legs & feet brown. Bill black, blue at base of lower mandible.  |         |         |         |        |
| <u>Yellow-shafted Flicker</u> (312) ♂ April 14  | 13 1/16 | 21      | 6 1/16  | 5      |
| <u>Robin</u> (1) <del>Barren</del> April 14   | 9 7/16  | 14 7/16 | 4 7/16  | 3 7/16 |
| <u>Yellow-Red-Poll Warbler</u> (90) ♂ April 4   | 5 9/16  | 8 7/16  | 2 7/16  | 2 5/16 |
| Irides brown. Wings and Tail dark. Above olive brown. Rump yellow. Beneath yellow with longitudinal dark brown markings on the breast |         |         |         |        |
| Crown chestnut. Bill and feet brownish. Two outer tail feathers tipped white. Stomach contained a large quantity of insects.          |         |         |         |        |
| <u>Cow-Bunting</u> (11) ♂ April 16  | 7 7/16  | 13 9/16 | 4 5/16  | 2 7/16 |
| Iris brown; Bill & feet black.  |         |         |         |        |
| <u>Downy Woodpecker</u> (299) ♂ April 14  | 6 13/16 | 12      | 3 7/16  | 2 9/16 |
| Iris pink or Red  |         |         |         |        |
| <u>Downy Woodpecker</u> (299) ♀ April 14  | 6 3/16  | 12      | 3 13/16 | 2 7/16 |
| Irides red.   |         |         |         |        |
| <u>Ruby-crowned Kinglet</u> (21) ♂ April 6  | 4 7/16  | 6 13/16 | 2 7/16  | 1 7/16 |
| Irides & feet brown; Bill black   |         |         |         |        |

## Measurements 1874

|   | Length  | Extent  | Wing    | Tail    |
|---|---------|---------|---------|---------|
| <u>Large-billed Water Thrush</u> (1) ♀ April 15   | 6 7/16  | 10      | 3 1/16  | 2       |
| Iris brown. Bill black, light at base of lower mandible   |         |         |         |         |
| Feet flesh-color.   |         |         |         |         |
| <u>Large-billed Water Thrush</u> (1) ♂ April 15   | 6 3/16  | 10 7/16 | 3 3/16  | 2 3/16  |
| Yellower beneath otherwise like preceding   |         |         |         |         |
| <u>Large-billed Water Thrush</u> (1) April 21   | 6 7/16  | 10 7/16 | 3 7/16  | 2       |
| Iris brown. When shot was warbling most beautifully   |         |         |         |         |
| <u>Ruby-crowned Kinglet</u> (21) April 21   | 4 3/16  | 6 13/16 | 2 7/16  | 1 7/16  |
| <u>Large-billed Water Thrush</u> (1) ♂ April 24   | 6 7/16  | 9 5/16  | 3 7/16  | 2 3/16  |
| <u>Hermit Thrush</u> (4) ♂ " 24   | 7 7/16  | 10 7/16 | 3 8/16  | 2 7/16  |
| Irides brown  |         |         |         |         |
| <u>Downy Woodpecker</u> (299) ♂ April 22  | 6 7/16  | 11 7/16 | 3 1/16  | 2 9/16  |
| Iris light Red  |         |         |         |         |
| <u>White-throated Sparrow</u> (18) ♂ May 5  | 6 12/16 | 9 7/16  | 3 1/16  | 3       |
| Iris brown  |         |         |         |         |
| <u>White-throated Sparrow</u> (18) ♂ May 5  | 6 8/16  | 9 7/16  | 2 13/16 | 2 13/16 |
| <u>Brown Thrasher</u> (10) ♂ " 5  | 10 7/16 | 13 7/16 | 4       | 4 7/16  |
| <u>Black-billed Cuckoo</u> (290) ♂ Sep 23   | 11 7/16 | 15 5/16 | 5 5/16  | 6 7/16  |
| Bill black, greenish at base of lower mandible. Legs & feet greenish. Eyelids yellow. Iris brown. |         |         |         |         |
| Length of shortest Tail feathers 5 7/16   |         |         |         |         |
| <u>Yellow-billed Cuckoo</u> (291) ♀ Sep 23  | 12 5/16 | 17 7/16 | 5 11/16 | 12 7/16 |
| Iris brown. Eyelids yellow. Legs & feet greenish.   |         |         |         |         |
| Bill yellow except top of upper mandible & tip which are black                                    |         |         |         |         |
| <u>Scarlet Tanager</u> (107) ♂ Sep 23   | 7 7/16  | 11 7/16 | 3 13/16 | 2 7/16  |
| Iris brown. Bill dusky. flesh-color. Legs & feet greenish.  |         |         |         |         |



## Measurements Sep 5 - Sep 9 / 1874

Irish Hawk; Osprey (300) ♂ Sep 8/74 #21 Length 61 $\frac{1}{16}$  Ext. Wing 18 $\frac{1}{16}$  Tail 8 $\frac{1}{16}$   
 Legs and feet very light green. Bill and ~~mandible~~  
 black; bill bluish at base of lower mandible.

Iris orange not straw-yellow: Was very fat but had not taken a meal recently.

White-eyed Vireo (122) juv. Sep 2 # 5 $\frac{5}{16}$  7 $\frac{1}{16}$  2 $\frac{1}{16}$  2 $\frac{1}{16}$   
 Iris white; Bill dark. Feet & Legs black.

Red-eyed Vireo (122) Sep 7 # 6 10 3 $\frac{1}{16}$  1 $\frac{1}{16}$   
 Upper mandible brownish-black. Lower mandible flesh-color, with an indistinct longitudinal bluish line on sides. Feet greenish. Iris bright red.

Brown Thrasher (10) ♂ Sep 7 # 13 11 $\frac{1}{16}$  3 $\frac{1}{16}$  5-  
 Bill from corner of mouth 1 $\frac{5}{16}$   
 Feet & Legs brownish. Basal half of beak (Lower mandible) horn-color.  
 Residuum black. Tail of 12 feathers. Irides straw-color.

Carolina Rail (468) ♂ Sep 8/74 # 8 $\frac{1}{16}$  14 $\frac{1}{16}$  4 $\frac{1}{16}$  1 $\frac{1}{16}$   
 Irides brown. Legs & Feet greenish-yellow.  
 Bill green and yellow, the green predominating on upper mandible and yellow on lower.

Length to top of toes - 12

Stomach was filled with fine white gravel, mud and a large quantity of crushed snails.

Carolina Rail (468) ♂ Sep 8. 9 $\frac{1}{16}$  14 4 $\frac{5}{16}$  2 $\frac{1}{16}$   
 Length to end of toes 12 $\frac{1}{16}$   
 Iris brown; Bill and feet greenish yellow nearly as in preceding.

## Measurements Sep 9 - 1874

Red-winged Blackbird (212) ♂ Sep 9 8 $\frac{1}{16}$  14 $\frac{1}{16}$  4 $\frac{1}{16}$  3 $\frac{1}{16}$   
 Irides brown. Upper mandible black; lower, bluish brown. Legs & Feet dark.

Bald Eagle (362) ♀ Sep 15 32 $\frac{1}{16}$  84 22 $\frac{1}{2}$  12 $\frac{1}{16}$   
 Iris brown; Legs & Feet yellow ochre; Tarsus bluish black. Bill blackish horn-color, showing a lighter graining running parallel with the outer curvature of beak. One eye deformed the pupil being far down in the corner, there like upper mandible. The region around base of upper mandible & sides of mouth yellowish horn-color. Peculiar roundish formation in top of the interior of nostrils.

Stomach contained the full length bone of large eels, with part of the flesh on, also a good deal of <sup>thick</sup> sticky digested matter. Whether the eagle skin eels or not I am unable to say, however those were. Weight 9 $\frac{1}{2}$  2 $\frac{1}{2}$ .

Solitary Tanager (435) ♂ Sep 16 8 16 $\frac{1}{16}$  5 $\frac{1}{16}$  2 $\frac{1}{16}$   
 Length to end of toes 10  
 Iris brown. Bill greenish black. Legs light greenish.

Ring Sparrow (169) ♂ Sep 23 6 $\frac{1}{16}$  8 $\frac{1}{16}$  2 $\frac{1}{16}$  2 $\frac{1}{16}$   
 Iris brown. Bill & feet light brown. Bill more dusky above.

Red-eyed Vireo (122) ♀ Sep 23 5 $\frac{1}{16}$  9 $\frac{1}{16}$  13 2  
 Legs, feet & lower mandible greenish. Upper mandible brownish black.

## Measurements of Birds

|   | 1874                   | Length   | Extent  | Wing    | Tail    |
|---|------------------------|----------|---------|---------|---------|
| Red-eyed Vireo (122) ♂  | Sep 23                 | 5 7/16   | 10      | 3 3/16  | 2 3/16  |
| Warbler's ( ) ♂   | Sep 25                 | 5 11/16  | 9 3/4   | 3       | 2 1/4   |
| Iris, bill & feet brown   |                        |          |         |         |         |
| Warbler's ( ) ♀   | Sep 28                 | 5 10/16  | 8 1/4   | 2 1/4   | 2 1/4   |
| Blue Jay (234) ♀  | Sep 25                 | 11 12/16 | 16 3/4  | 5 3/4   | 5 2/16  |
| Iris brown. Bill & feet black   |                        |          |         |         |         |
| Carolina Rail (468) ♀   | Sep 25                 | 8 7/16   | 12 1/4  | 3 1/4   | 2       |
| Iris brown. Legs & feet green. Bill - upper mandible yellowish green - lower mandible greenish yellow   |                        |          |         |         |         |
| Length to end of toes 11 1/16   |                        |          |         |         |         |
| Carolina Rail (468) ♀   | Sep 25                 | 8 7/16   | 13 3/4  | 3 15/16 | 1 15/16 |
| Length to end of toes 11 9/16   |                        |          |         |         |         |
| Red-winged Blackbird (4 specimens)  | Iris brown. Bill dusky |          |         |         |         |
| 1st Legs & feet black. (212) ♂  | Sep 25                 | 8        | 14      | 4 9/16  | 2 3/16  |
| 2nd (212) ♂   | Sep 25                 | 8 7/16   | 13 7/16 | 4 5/16  | 2 3/4   |
| 3rd (212) ♀   | Sep 25                 | 5 7/16   | 12 3/4  | 3 1/4   | 2 1/4   |
| 4th (212) ♀   | Sep 25                 | 6 1/2    | 11 1/4  | 3 1/2   | 2 1/4   |
| Song Sparrow ( )  | Sep 25                 | 6 5/16   | 8 7/16  | 2 7/16  | 2 1/4   |
| Legs & feet flesh color. Bill brownish black. Iris brown.   |                        |          |         |         |         |
| Common Crow (228) ♂   | Sep 29                 | 20       | 37 3/16 | 12 5/16 | 7 14/16 |
| Iris brown. Bill & feet black. Apparently <sup>young</sup> or moulting. Stomach contained a quantity of hair, gravel and remains of shrimp and fishes |                        |          |         |         |         |
| Length of tarsus 2 3/16   |                        |          |         |         |         |
| " " Middle toe & claw 2   |                        |          |         |         |         |

## Common Crow Sep 29/74

|   |         | Length  | Extent  | Wing    | Tail   |
|---|---------|---------|---------|---------|--------|
| It claw alone   | 1 1/16  |         |         |         |        |
| Bill above (straight line)  | 1 13/16 |         |         |         |        |
| Gape  | 2 3/16  |         |         |         |        |
| Height of Base  | 12 1/16 |         |         |         |        |
| Belted Kingfisher ♀ Sep 29  |         | 12 1/16 | 21 1/16 | 6       | 3 1/4  |
| Eyel  | 5 1/16  |         |         |         |        |
| Bill above  | 2 3/16  |         |         |         |        |
| " below (from first feathers)   | 1 10/16 |         |         |         |        |
| " along Gape  | 2 10/16 |         |         |         |        |
| Iris dark brown. Legs & feet dusky flesh color  |         |         |         |         |        |
| Bill bluish black, greenish at base   |         |         |         |         |        |
| Stomach contained bones and scales of fishes also some tape worms.                                      |         |         |         |         |        |
| Red-winged Blackbird (212) ♀ Sep 26   |         | 7 1/16  | 12 1/16 | 4       | 3 1/16 |
| Iris brown. Bill dusky. Legs & feet black   |         |         |         |         |        |
| Field Sparrow (279) ♂ Sep 30  |         | 5 10/16 | 7 1/16  | 2 5/16  | 2 5/16 |
| Bill & feet brownish flesh - do not change in drying. Iris brown.                                       |         |         |         |         |        |
| Flycatcher ( ) Sep 30   |         | 6 1/16  | 9 1/16  | 3       | 2 9/16 |
| Iris brown. Legs and upper mandible black. Lower mandible flesh pink at base; shading into black at tip |         |         |         |         |        |
| Chickadee (204) ♂ Sep 30  |         | 8 5/16  | 11 1/16 | 3 1/16  | 3 1/16 |
| Feet light brown. Bill dusky.   |         |         |         |         |        |
| Downy Woodpecker (299) ♂  |         | 6 5/16  | 11 1/16 | 3 10/16 | 2 1/16 |
| Iris brown. I killed it by hitting it with an apple   |         |         |         |         |        |

|  | Length                           | Extent                           | Wing                            | Tail                            |
|--|----------------------------------|----------------------------------|---------------------------------|---------------------------------|
| <u>Ruffed Grouse</u> (385) October 17-74   | 16 <sup>1</sup> / <sub>16</sub>  | 23                               | 17 <sup>3</sup> / <sub>16</sub> | 5 <sup>8</sup> / <sub>16</sub>  |
| Iris brown. Feet bluish brown Bill - Maxilla<br>blk. Mandible brownish flesh color |                                  |                                  |                                 |                                 |
| <u>Blue Jay</u> ♂ Iris brown. Bill & feet black<br>Oct 14-74                       | 12                               | 17 <sup>1</sup> / <sub>16</sub>  | 5 <sup>1</sup> / <sub>16</sub>  | 5 <sup>5</sup> / <sub>16</sub>  |
| <u>Yellow-bellied Woodpecker</u> ♀ Oct 15  | 8 <sup>7</sup> / <sub>16</sub>   | 14 <sup>12</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>16</sub>  | 3 <sup>1</sup> / <sub>16</sub>  |
| Iris brown Bill & feet greenish brown  |                                  |                                  |                                 |                                 |
| <u>Red-winged Blackbird</u> ♀ Oct 15   | 8 <sup>1</sup> / <sub>16</sub>   | 12 <sup>12</sup> / <sub>16</sub> | 4                               | 3                               |
| Iris brown Bill and Feet blk.  |                                  |                                  |                                 |                                 |
| <u>Spotted Sandpiper</u> ♂ Oct 15-74   | 18 <sup>1</sup> / <sub>16</sub>  | 13 <sup>1</sup> / <sub>16</sub>  | 4 <sup>9</sup> / <sub>16</sub>  | 2 <sup>1</sup> / <sub>16</sub>  |
| Iris dark brown Length to end of toes 10   |                                  |                                  |                                 |                                 |
| <u>Wood Duck</u> ♂ juv. Oct 11 Iris brown  | 17 <sup>13</sup> / <sub>16</sub> | 28 <sup>7</sup> / <sub>16</sub>  | 8 <sup>2</sup> / <sub>16</sub>  | 3 <sup>8</sup> / <sub>16</sub>  |
| Feet muddy greenish - Webs blk. Bill bluish - Mandible<br>flesh-color              |                                  |                                  |                                 |                                 |
| <u>Finch - Purple</u> ♂  | 6 <sup>4</sup> / <sub>16</sub>   | 10 <sup>2</sup> / <sub>16</sub>  | 3 <sup>5</sup> / <sub>16</sub>  | 2 <sup>9</sup> / <sub>16</sub>  |
| <u>Sharp-tailed - Sparrow</u> Oct 16 Iris brown                                    | 5 <sup>6</sup> / <sub>16</sub>   | 7 <sup>7</sup> / <sub>16</sub>   | 2 <sup>3</sup> / <sub>16</sub>  | 1 <sup>15</sup> / <sub>16</sub> |
| Length to end of toes 6 <sup>5</sup> / <sub>16</sub>                               |                                  |                                  |                                 |                                 |
| Bill black on ridge - reseedien flesh color. Legs light brown                      |                                  |                                  |                                 |                                 |
| <u>Champf. Sparrow</u> ♀ Oct 16 Iris brown   | 5 <sup>10</sup> / <sub>16</sub>  | 7 <sup>9</sup> / <sub>16</sub>   | 2 <sup>3</sup> / <sub>16</sub>  | 2 <sup>6</sup> / <sub>16</sub>  |
| Length to end of toes 6 <sup>5</sup> / <sub>16</sub>                               |                                  |                                  |                                 |                                 |
| Bill black on ridge - reseedien brown. Legs & feet brown                           |                                  |                                  |                                 |                                 |
| <u>Red-bellied Noddy</u> ♂ juv. Nov 5/74   | 17 <sup>10</sup> / <sub>16</sub> | 17                               | 5 <sup>1</sup> / <sub>16</sub>  | 3 <sup>1</sup> / <sub>16</sub>  |
| Abt sea - abundant. N.Y.   |                                  |                                  |                                 |                                 |
| <u>Heard's Owl</u> Nov 5/74  | 7 <sup>1</sup> / <sub>16</sub>   | 19 <sup>1</sup> / <sub>16</sub>  | 7 <sup>1</sup> / <sub>16</sub>  | 3                               |
| Shot in N.Y. near N.Y.   |                                  |                                  |                                 |                                 |



Price List of Eggs from J. H. Boone 55 Leominster N.Y.

| No. of Eggs for sale                  | Price of One Egg | S. D. No. |
|---------------------------------------|------------------|-----------|
| 1 Francolin                           | 50               |           |
| 3 Reddish Egrets                      | 1 00             | 483       |
| 9 Louisiana Heron                     | 50               | 484       |
| 5 Snowy Heron                         | 50               | 485       |
| 2 Great Blue Heron                    | 1 00             | 487       |
| 2 Blue Heron                          | 1 00             | 490       |
| 2 White Ibis                          | 2 00             | 499       |
| 1 Rosey Sparrow                       | 2 50             | 501       |
| 2 Wile                                | 1 00             | 537       |
| 1 Marsh Hen ( <i>Rallus elegans</i> ) | 75               | 552       |
| 10 Brown Pelican                      | 50               | 616       |
| 1 Frigate Pelican                     | 2 50             | 619       |
| 8 Florida cormorant                   | 75               | 629       |
| 4 Snake Bird                          | 2 25             | 628       |
| 8 Laughing Gull                       | 75               | 667       |
| 4 Royal Tern                          | 75               | 683       |
| 5 Green Heron                         | 25               | 493       |
| 65. 17 kinds                          |                  |           |

|                   |     |        |           |
|-------------------|-----|--------|-----------|
| Puffin            | 715 | Egg 75 | Skin 3 00 |
| Guillemot         | 726 | 75     |           |
| Boatish Guillemot | 729 | 50     | 2 00      |

Price List of Skins and Eggs - Breeds 37 East 22. N.Y.

|  | Price of Egg | Price of Skin |
|--|--------------|---------------|
| Fresh Hawk - <i>Pandion carolinensis</i> | 1 50         |               |
| Wood Pewee                               | 30           |               |
| Savannah Sparrow                         | 25           | 25            |
| Black-billed Magpie                      | 75           |               |
| Common Dove                              | 25           |               |
| Sand-hill Crane                          | 1 00         |               |
| Night Heron                              | 50           |               |
| Piping Plover                            | 50           | 50            |
| Semipalmated Sand Piper                  |              | 50            |
| Coot                                     |              | 1 00          |
| Eider Duck                               | 75           |               |
| Black Masked Duck                        | 50           |               |
| Brown Pelican                            | 75           |               |
| Common Gannet                            | 50           |               |
| Florida Cormorant                        | 75           |               |
| Snake Bird; Water Turkey                 | 60           |               |
| Leaches Petrel                           | 1 00         |               |
| Great Black-backed Gull                  | 50           | 25            |
| Herring Gull                             | 1 00         |               |
| Royal Tern                               | 1 00         |               |
| Leahot's Tern                            | 20           | 75            |
| Wilson's "                               | 30           |               |
| Arctic "                                 | 30           |               |
| Least "                                  | 25           |               |
| Podilymbus podiceps                      | 75           |               |
| Razor Bill                               |              |               |

Continued on 168.

## C. J. Maynard &amp; Co.

Supplementary List of Birds & Eggs

We can now furnish the following Birds Skin &amp; Eggs.

|   | Price of<br>Skins | Price of<br>Eggs |
|---|-------------------|------------------|
| <i>Cathartes aura</i> , Turkey Buzzard ---            |                   | 1 50             |
| <i>Falco anatum</i> , Duck Hawk -----                 | 5 00              |                  |
| <i>Buteo swainsonii</i> , Swainson's Hawk             |                   | 2 50             |
| <i>Rostrhamus sociabilis</i> , Everglade Kite -       | 10 00             |                  |
| <i>Syrnium nebulosum</i> , Barred Owl ---             |                   | 2 00             |
| <i>Athene cunicularia</i> , Burrowing Owl -           | 2 00              | 1 00             |
| <i>Campephilus principalis</i> , Ivory-billed Wood P. | 10 00             |                  |
| <i>Picus Harrisii</i> , Harris Wood Pecker -          | 1 00              |                  |
| " <i>scalaris</i> , Texas " "                         | 1 00              |                  |
| " <i>albolarvatus</i> , White Headed Wood P.          | 2 50              |                  |
| <i>Atthis ardea</i> , Anna Humming Bird               | 2 00              |                  |
| <i>Tyrannus dominicensis</i> , Gray King "            |                   | 1 00             |
| <i>Vireo Bellii</i> , Bells Vireo                     |                   | .50              |
| <i>Euspiza americana</i> , Blk. Throated Bunting      |                   | .25              |
| <i>Cyanospiza cyanea</i> , Lazuli Finch -             | .50               | .75              |
| <i>Pica hudsonica</i> , Magpie -----                  | 2 00              | 1 00             |
| <i>Ectopistes migratoria</i> , Wild Pigeon            |                   | .50              |
| <i>Zenaidura carolinensis</i> , Common Dove           |                   | .25              |
| <i>Cix pratensis</i> , Corn Crane -----               |                   | 1 00             |
| <i>Chauleasmus streperus</i> , Gadwall                |                   | .75              |

List of SpecimensPrice of  
Skins Price of  
Eggs

|   |       |      |
|---|-------|------|
| <i>Mareca americana</i> , American Widgeon    |       | 75   |
| <i>Bucephala americana</i> , Golden-eyed Duck |       | 1 00 |
| <i>Rissa tridactyla</i> , Killawake Gull --   | 1 50  | 2 00 |
| <i>Rhynchops nigra</i> , Black Skimmer -      | 3 00  | 1 00 |
| <i>Colymbus torquatus</i> , Loon -----        | 3 00  | 2 00 |
| <i>Demigretta rufa</i> , Reddish Egret ----   | 10 00 |      |
| <i>pealii</i> , Peale's " ----                | 10 00 |      |

We are at present out of the following Eggs; the numbers given corresponding with those of the larger catalogue: 11, 19, 36, 50, 54, 129, 154, 167, 197, 251, 252, 258, 275, 287, and 294. We are out of the following skins: 41, males of 70 & 117.

Taxidermists' Instruments.

|                                    |      |
|------------------------------------|------|
| Blow Pipes -----                   | 30   |
| Egg Drills No 1 (Large size) ----- | 1 00 |
| " " No 2 (Smaller) -----           | 25   |
| " " No 3 (For small eggs) -----    | 25   |
| Embryo Hooks, No 1 (Large) -----   | 25   |
| " " , No 2 (Small) -----           | 25   |
| Cutting Pliers -----               | 1 00 |
| Flat-nosed Pliers -----            | 50   |
| Tweezers No 1 -----                | 25   |
| " No 2 (Smaller) -----             | 25   |

Skimming Knife

Flat File

The above are all necessary in mounting mammals & Birds.

### Birds Eyes

Blk. Eyes. Size for Blue Jay to Woodcock -- 3 cts per pair

" " " H. Bird to Red-winged B. B. -- 2 " " "

" " " Woodcock to Partridge -- 5 " " "

" " " Crow, -- 6 " " "

" " " Barred Owls -- 20 " " "

Colored Eyes " Red-eyed Vireo -- 10 " " "

" " " Golden-eyed Duck -- 15 " " "

" " " Mottled Owl -- 20 " " "

" " " Loon -- 25 " " "

" " " Great-horned Owl -- 40 " " "

Elongated Eyes " for Foxes -- 40 " " "

" " " Deer -- \$1 00 " "

### Price Catalogue for mounting

### Mammals, Birds, Reptiles & Fishes

| Size                  | Mammals | Price |
|-----------------------|---------|-------|
| Moose and Buffalo, -- |         | 75.00 |
| Bear, --              |         | 70.00 |
| Caribou, --           |         | 65.00 |
| Deer --               |         | 50.00 |

Wolf & Puma

Wild cat, Otter, and Beaver

Raccoon, Fox and Skunk

Rabbit and Muskrat

Squirrel, Fox, gray and Black

Chipping Squirrel and all smaller species

### Birds

Hum - Bird to Robin, including warblers like

Blue Jay to Sparrow Hawk, & warblers like (Pep. etc)

Yellow-legs or Plover, --

Wild Pigeon to Partridge or grouse --

Large Hawks, Owls, Ducks, Grebes, Anks & Gulls

Heron & Ibises

Loons & Turkey

Eagle, Geese, Gr. Blue Herons & Sand Hill Cranes

### Reptiles

Large Alligators, ten feet in length & upwards  
" 7-9" " " \$30.00 (40.00)

### Lepidoptera from Florida

No. 1 Danaid bericell (Gams) 2 Acraulis vanillae (Hübner) 3 Pieris monusta (Hubn) 4 Eumoeus atalae (Prey) 5 Terias nicippe (Fabr) 6 Militaria iemeria 7 Gycena filenae & Terias lisa 8 Colhidryas argentea (Hubn) 9 C. cubule (Gunn) 10 Junonia coenia (Hubn) 11 Gycena modesta nov. sp 12 Species 20 8 specimens price \$2.00



## Synopsis of Birds of North America - (Audubon.)

Table of Contents.Family I ----- Vulturinae ----- Vulturine BirdsGenus I Cathartes - Turkey VultureFamily II Falconinae - Falconine Birds,

- Genus 1 Polyborus Caracara,  
 " 2 Buteo Buzzard,  
 " 3 Aquila Eagle,  
 " 4 Haliaetus Sea Eagle,  
 " 5 Pandion Osprey,  
 " 6 Elanus Elanus,  
 " 7 Ictinia Ictinia,  
 " 8 Nauclerus Swallow-tailed Hawk,  
 " 9 Falco Falcon,  
 " 10 Astur Hawk,  
 " 11 Circus Harriers,

Family III Striginae - Owls

- Genus 1 Surnia Day-Owl,  
 " 2 Uro Night-Owl,  
 " 3 Strix Screech-Owl,  
 " 4 Syrnium Hooting Owl,  
 " 5 Otus Eared Owl,  
 " 6 Bubo Horned Owl,

Family IV Caprimulginae - Goatsuckers,

- Genus 1 Caprimulgus Goatsucker,  
 " 2 Chordeiles Night Hawk,

## Synopsis of Birds of North America. (Audubon.)

Family V Icthyophaga - Swifts,  
Genus 1 Chaetura - Spine-Tail,Family VI Hirundininae - Swallows,Genus 1 Hirundo Swallow,Family VII Muscicapinae - Fly-catchers,

- Genus 1 Melospiza Swallow-Tail,  
 " 2 Muscicapa Flycatcher,  
 " 3 Ptilonotus Ptilonotus,  
 " 4 Culicivora Gnat-catcher,

Family VIII Sylviolinae - Wood Warblers,

- Genus 1 Myiodytes Fly-catching Warbler,  
 " 2 Sylvicola Wood Warbler,  
 " 3 Trichas Ground Warbler,  
 " 4 Helinaia Swamp Warbler,  
 " 5 Minotilta Creeping Warbler,

Family IX Certhiinae - Creepers,

- Genus 1 Troglodytes Tree Creeper,  
 " 2 Troglodytes Wren,

Family X Paridae - Tits,Genus 1 Parus Tit,Family XI Sylviinae - Warblers,

- Genus 1 Regulus Kinglet,  
 " 2 Sylvia Blue Bird,

Family XII Turdinae - Thrushes,

- Genus 1 Cinclus Dipper,  
 " 2 Orpheus Mocking Bird,  
 " 3 Turdus Thrush,



## Synopsis of Birds of North America (Audubon)

|          |                          |                   |                    |
|----------|--------------------------|-------------------|--------------------|
| Family   | Family XIII Motacillinae |                   | Wagtails,          |
|          | Genus 1                  | Scirurus          | Wood Wagtails,     |
| Genus    | 2                        | Anthus            | Pipit,             |
|          | Family XIV Alaudinae     |                   | Larks,             |
| Family   | Genus 1                  | Aluda             | Lark,              |
|          | Family XV Fringillinae   |                   | Finches,           |
| Genus    | Genus 1                  | Plectrophanes     | Lark Bunting,      |
|          | "                        | 2 Emberiza        | Bunting,           |
| "        | "                        | 3 Miphæa          | Snow Bird,         |
| "        | "                        | 4 Spiza           | Painted Bunting,   |
| "        | "                        | 5 Ammodramus      | Shore Finch,       |
| "        | "                        | 6 Pencaea         | Pine wood Finch,   |
| "        | "                        | 7 Lenaria         | Linnet,            |
| "        | "                        | 8 Carduelis       | Gold-Finches,      |
| "        | "                        | 9 Tringilla       | Finch,             |
| "        | "                        | 10 Pipilo         | Ground Finch,      |
| Family   | "                        | 11 Erythropsiza   | Purple Finch,      |
|          | "                        | 12 Corythus       | Pine Finch,        |
| Genus    | "                        | 13 Loxia          | Crossbill,         |
|          | "                        | 14 Corydalina     | Lark Finch,        |
| "        | "                        | 15 Pitylus        | Cardinal Grosbeak, |
| "        | "                        | 16 Coccothraustes | Song Grosbeak,     |
| "        | "                        | 17 Coccothraustes | Grosbeak,          |
| Family   | "                        | 18 Pyrrhuloxia    | Red Bird,          |
|          | Continued on             |                   |                    |
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